

## **Cementers Well Information Sheet**

**Well Name: PHARAOH 4N ( Well 4 Of 5 )**

**AFE#: DC003113**

**API#: 05-123-48832**

**Surface Casing Set At: 1,671'**

**Formation: NIO C**

**Estimated TD: 16829'**

**Estimated TVD at TD: 6565'**

**Top Of Lead Cement: 500'**

**Top Of Tail Cement: 6005'**

**Production Casing Type: 5 ½" BTC #20**

**\*\*\* Please Note: TD and TVD at TD are based off drilling plan and has the possibility of changing. Any significant changes in depths will be communicated to Cement Company\*\*\***

## US Treatment Report



**Customer:** PDC Energy  
**Rep:** Jeremy Stoltz  
**Supervisor:** Stephen Cardos  
**Job Type:** US Primary  
 Casing-Production

**Rig:** Ensign 142  
**Well:** PHARAOH 4N  
**UWI:** PHARAOH 4N  
**Surface:** API#: 05-123-48832

**Job #:** JOB00093097  
**Job Date:** 1/13/2021  
**Time Requested:** 13:00  
**Time Arrived:** 12:00  
**Time Released:** 22:30

### Scavenger

62.82 sk MAG EV 12.9 + 0.30% MCR-3 + 0.20% MCR-1 + 0.70% MCFL-7 + 1.00% MCA-4 + 0.50% MCGC-1 + 0.20% MCDF-P  
 Weight: 12.5lb/gal

Yield: 1.7 ft<sup>3</sup>/sk = 19bbls      Mix Water: 8.98 gal/sk = 564.02 gal

855.4 sk MAG EV 12.9 + 0.30% MCR-3 + 0.20% MCR-1 + 0.70% MCFL-7 + 1.00% MCA-4 + 0.50% MCGC-1 + 0.20% MCDF-P

Yield: 1.53 ft<sup>3</sup>/sk = 233.09bbls      Mix Water: 7.72 gal/sk = 6603.53gal

1839.9 sk MAG EV 13.7 + 0.50% MCA-2 + 0.80% MCFL-7 + 0.30% MCFR-2 + 0.35% MCR-H + 0.30% MCI-2 + 0.50% MCFW-1  
 + 0.50% MCGC-1 + 0.20% MCDF-P

Yield: 1.35ft<sup>3</sup>/sack = 442.38bbls      Mix Water: 6.40gal/sack = 11775.36gal

BHCT (F)	215	BHST (F)	215	Surface Casing Casing Size (in)	9.625
Surface Casing Grade	J-55	Surface Casing Weight (lb/ft)	36	Production Casing Casing Size (in)	5.5
Production Casing Grade	P-110	Production Casing Weight (lb/ft)	20	Collapse Csg Pressure (psi)	11110
Float Depth (ft)	16788	Funnel Vis (sec/qt)	56	Hole Size (in)	8.5
Max Csg Pressure (psi)	12630	Max Pressure (psi)	5000	Mud Density (lb/gal)	10.7
Mud Type	10.7	Plug Type	Rig	TMD (ft)	16829
Tool Depth (ft)	16788		Supplied	TVD (ft)	6630
Unkown UDF	Productio n Casing	Tool Type	WET		
		Unkown UDF	SHOE		
			SI ID		
			Surface		
			Casing		

Treatment Info:      Sacks Used: 0      Sacks Not Used: 0

Preflush: 5bbls Fresh Water & 38bbls MAG Sweep-H + MAG Clean-1 & 19bbls MAG Sweep

Slurry Temp:	68	Bulk Sample:	Yes			
Water Temp:		Water Sample:	Yes			
Bulk Temp:		Slurry Sample:	Yes			
Air Temp:	48	Air Pressure	29.8			
Slurry Returns:	Plug Bumped:	Yes	Pump Out Lines:	Yes	Float Held:	Yes
Cement Class:	Type III	Humidity:	44	Precipitation:	0	

Displace: 10bbls Fresh Water + MCR-3 & 362bbls Fresh Water & 5bbls Fresh Water

Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/mi n	Treatment Detail
10:24	2,200.00		372		4	Decrease Rate - DROP RATE
12:00	0.00					Arrive on Location - ARRIVE ON LOCATION AT 12:00, CUSTOMER REQUESTED 13:00
12:15	0.00					RIG UP PUMP AND LINES

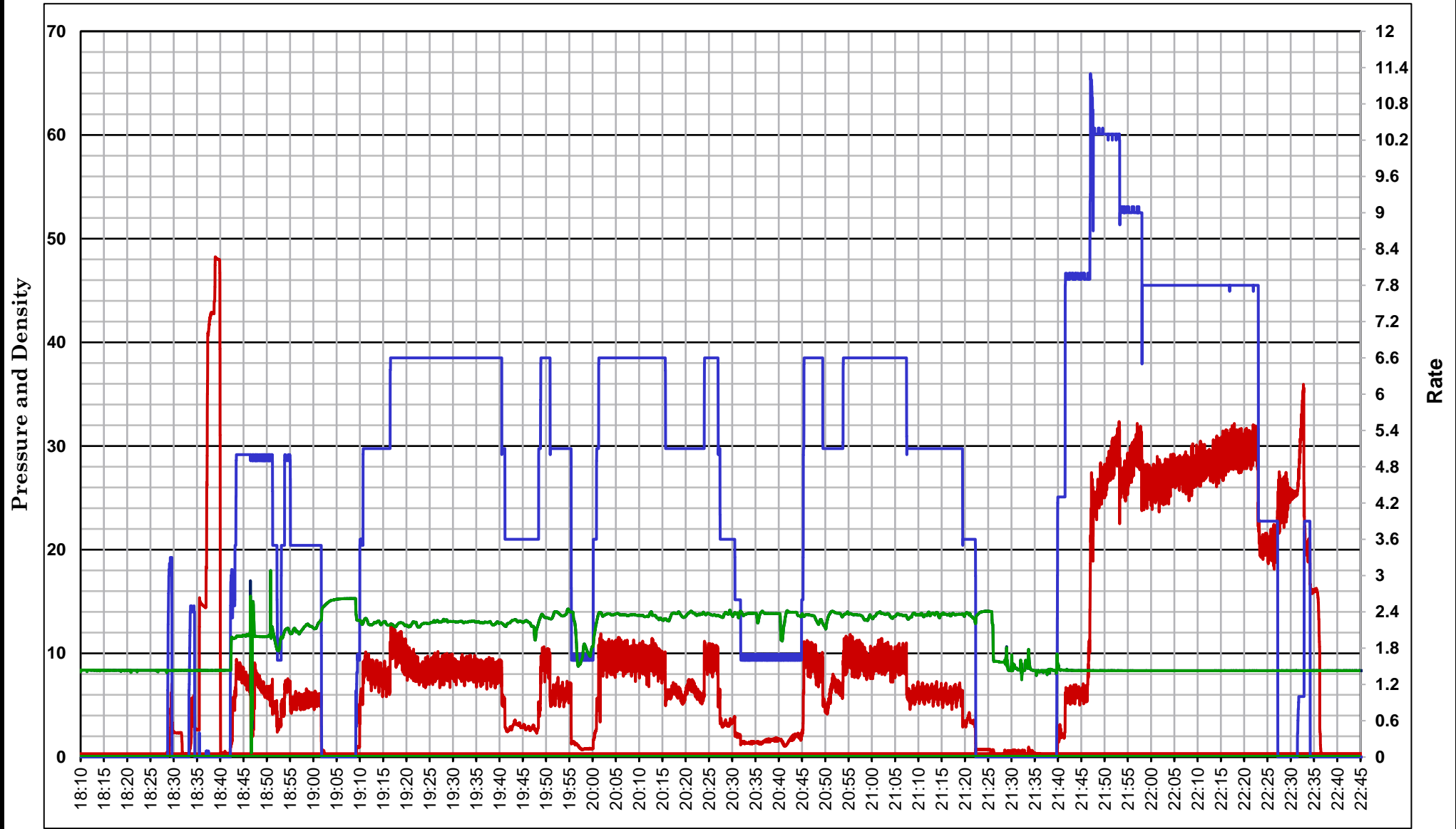
18:15	0.00					Safety Meeting - DISCUSS SAFETY PROCEEDURES AND JOB OUTLINE
18:29	750.00		5		3.5	Fill Lines - DROP PLUG/FILL LINES
18:36	4,820.00					Start Pressure Test - PRESSURE TEST PUMP AND LINES 1500/4820
18:42	850.00		38		5	Pump Preflush - PUMP MAG SWEEP H+ MAG CLEAN 1, 11.5 LB
18:52	750.00		19		5	Pump Preflush - PUMP MAG SWEEP H, 12 LB
18:59	700.00		19		3.5	Pump Scavenger - PUMP SCAVENGER SLURRY 12.5 LB(63.5 SACKS)
19:03	0.00					Stop Pumping - SHUTDOWN/DROP PLUG #2
19:09	900.00		232		6.5	Pump Slurry - PUMP MAG EV 12.9 LB CEMENT(855.4 SACKS)
19:48	1,000.00		442		6.5	Pump Slurry - PUMP MAG EV 13.7 LB CEMENT(1839.9 SACKS)
21:23	0.00					Stop Pumping - SHUTDOWN/ WASH UP/DROP PLUG
21:42	3,200.00		110		10.5	Displace - DISPLACE FIRST 10 SUGAR WATER
21:55	3,200.00		160		9	Decrease Rate - DROP RATE
21:59	2,900.00		350		8	Decrease Rate - DROP RATE
22:28	2,700.00					Bump Plug - BUMP PLUG
22:32	3,657.00					SHIFT TOOL
22:35	1,893.00		5		4	Displace - DISPLACE WET SHOE
22:37	0.00					Check Floats - FLOATS HELD ( 3 BBL BACK)



Customer: PDC Energy  
Date: January 13, 2021  
Ticket: 93097

Well Name: PHARAOH 4N  
UWI: GREELEY  
Job Type: Production

Unit  
1605



■ Density = Lb/Gal

■ Pressure = Psi \*100

■ Rate = BBL/Min

## 5.5" Casing

WELL	PHARAOH 4N	DATE: 1/12/2021							
DEPTH (Ft)	16829.00	K.B. to Wellhead		28.00	Rat Hole	8.00	20.00		
SHOE (Ft)	16821.00	0.0293	Accumulated	0.02220	Mud Wt.	10.6	0.83816794		
Rack#	Description	Closed End Displacement (Bbls)	Capacity (Bbls)	Length (Ft)	Length Accum. (FT)	Top To RT (Ft)	Weight (k#)	Comments	
	<i>Float Shoe</i>	0.054498	0.04	1.86	1.86	16819.14	0.03	<i>10K SINGLE VALVE FLOAT SHOE</i>	
	<i>Pup Joint</i>	0.387346	0.29	11.36	13.22	16807.78	0.22	<i>5.500" 20# PUP JOINT</i>	
	<i>Float Collar #1</i>	0.431589	0.33	1.51	14.73	16806.27	0.25	<i>10K SINGLE VALVE FLOAT COLLAR</i>	
	<i>Float Collar #2</i>	0.476418	0.36	1.53	16.26	16804.74	0.27	<i>10K SINGLE VALVE FLOAT COLLAR</i>	
	<i>Pup Joint</i>	0.825088	0.63	11.90	28.16	16792.84	0.47	<i>5.500" 20# PUP JOINT</i>	
	<i>Wet Shoe Sub</i>	0.951957	0.72	4.33	32.49	16788.51	0.54	<i>WET SHOE PINNED@1660 PSI</i>	
	<i>Pup Joint</i>	1.097578	0.83	4.97	37.46	16783.54	0.63	<i>5.500" 20# PUP JOINT</i>	
	<i>Ball Seat Sub</i>	1.118381	0.85	0.71	38.17	16782.83	0.64	<i>CASING TEST SUB 4.250" BALL SEAT</i>	
1	<i>Casing Joints</i>	2.474385	1.87	46.28	84.45	16736.55	1.42	<i>1 8.25" COMPOSITE</i>	
2	<i>Casing Joints</i>	3.840937	2.91	46.64	131.09	16689.91	2.20		
3	<i>Casing Joints</i>	5.184049	3.93	45.84	176.93	16644.07	2.97	<i>2 8.25" COMPOSITE</i>	
4	<i>Casing Joints</i>	6.527454	4.95	45.85	222.78	16598.22	3.73		
5	<i>Casing Joints</i>	7.862948	5.96	45.58	268.36	16552.64	4.50	<i>3 8.25" COMPOSITE</i>	
6	<i>Casing Joints</i>	9.232137	6.99	46.73	315.09	16505.91	5.28		
7	<i>Casing Joints</i>	10.578179	8.01	45.94	361.03	16459.97	6.05	<i>4 8.25" COMPOSITE</i>	
8	<i>Casing Joints</i>	11.970222	9.07	47.51	408.54	16412.46	6.85		
9	<i>Casing Joints</i>	13.316557	10.09	45.95	454.49	16366.51	7.62	<i>5 8.25" COMPOSITE</i>	
10	<i>Casing Joints</i>	14.702154	11.14	47.29	501.78	16319.22	8.41		
	<i>Marker A</i>	14.996619	11.36	10.05	511.83	16309.17	8.58	<i>6 8.25" COMPOSITE</i>	
11	<i>Casing Joints</i>	16.373719	12.41	47.00	558.83	16262.17	9.37		
12	<i>Casing Joints</i>	17.676983	13.39	44.48	603.31	16217.69	10.11	<i>7 8.25" COMPOSITE</i>	
13	<i>Casing Joints</i>	18.9864	14.39	44.69	648.00	16173.00	10.86		
14	<i>Casing Joints</i>	20.35178	15.42	46.60	694.60	16126.40	11.64	<i>8 8.25" COMPOSITE</i>	
15	<i>Casing Joints</i>	21.738256	16.47	47.32	741.92	16079.08	12.44		
16	<i>Casing Joints</i>	23.130592	17.53	47.52	789.44	16031.56	13.23	<i>9 8.25" COMPOSITE</i>	
17	<i>Casing Joints</i>	24.386976	18.48	42.88	832.32	15988.68	13.95		
18	<i>Casing Joints</i>	25.6961	19.47	44.68	877.00	15944.00	14.70	<i>10 8.25" COMPOSITE</i>	
19	<i>Casing Joints</i>	27.074665	20.51	47.05	924.05	15896.95	15.49		
20	<i>Casing Joints</i>	28.413968	21.53	45.71	969.76	15851.24	16.26	<i>11 8.25" COMPOSITE</i>	
21	<i>Casing Joints</i>	29.764112	22.55	46.08	1015.84	15805.16	17.03		
22	<i>Casing Joints</i>	31.133301	23.59	46.73	1062.57	15758.43	17.81	<i>12 8.25" COMPOSITE</i>	
23	<i>Casing Joints</i>	32.520656	24.64	47.35	1109.92	15711.08	18.61		
24	<i>Casing Joints</i>	33.915336	25.70	47.60	1157.52	15663.48	19.40	<i>13 8.25" COMPOSITE</i>	
25	<i>Casing Joints</i>	35.305914	26.75	47.46	1204.98	15616.02	20.20		
26	<i>Casing Joints</i>	36.630274	27.75	45.20	1250.18	15570.82	20.96	<i>14 8.25" COMPOSITE</i>	
27	<i>Casing Joints</i>	37.979539	28.78	46.05	1296.23	15524.77	21.73		
28	<i>Casing Joints</i>	39.370996	29.83	47.49	1343.72	15477.28	22.53	<i>15 8.25" COMPOSITE</i>	
29	<i>Casing Joints</i>	40.71235	30.85	45.78	1389.50	15431.50	23.29		
30	<i>Casing Joints</i>	42.000085	31.82	43.95	1433.45	15387.55	24.03	<i>16 8.25" COMPOSITE</i>	
31	<i>Casing Joints</i>	43.359605	32.85	46.40	1479.85	15341.15	24.81		
32	<i>Casing Joints</i>	44.752234	33.91	47.53	1527.38	15293.62	25.60	<i>17 8.25" COMPOSITE</i>	
33	<i>Casing Joints</i>	45.998949	34.85	42.55	1569.93	15251.07	26.32		
34	<i>Casing Joints</i>	47.345284	35.87	45.95	1615.88	15205.12	27.09	<i>18 8.25" COMPOSITE</i>	
35	<i>Casing Joints</i>	48.593757	36.82	42.61	1658.49	15162.51	27.80		
36	<i>Casing Joints</i>	49.899072	37.81	44.55	1703.04	15117.96	28.55	<i>19 8.25" COMPOSITE</i>	
37	<i>Casing Joints</i>	51.252146	38.83	46.18	1749.22	15071.78	29.32		
38	<i>Casing Joints</i>	52.64624	39.89	47.58	1796.80	15024.20	30.12	<i>20 8.25" COMPOSITE</i>	
39	<i>Casing Joints</i>	54.038869	40.94	47.53	1844.33	14976.67	30.92		
40	<i>Casing Joints</i>	55.42974	42.00	47.47	1891.80	14929.20	31.71	<i>21 8.25" COMPOSITE</i>	
41	<i>Casing Joints</i>	56.799515	43.04	46.75	1938.55	14882.45	32.50		
42	<i>Casing Joints</i>	58.194781	44.09	47.62	1986.17	14834.83	33.29	<i>22 8.25" COMPOSITE</i>	
43	<i>Casing Joints</i>	59.587996	45.15	47.55	2033.72	14787.28	34.09		
44	<i>Casing Joints</i>	60.969491	46.20	47.15	2080.87	14740.13	34.88	<i>23 8.25" COMPOSITE</i>	
45	<i>Casing Joints</i>	62.355381	47.25	47.30	2128.17	14692.83	35.68		
46	<i>Casing Joints</i>	63.703767	48.27	46.02	2174.19	14646.81	36.45	<i>24 8.25" COMPOSITE</i>	

47	Casing Joints		65.028127	49.27	45.20	2219.39	14601.61	37.20	
48	Casing Joints		66.336372	50.26	44.65	2264.04	14556.96	37.95	25 8.25" COMPOSITE
49	Casing Joints		67.670987	51.27	45.55	2309.59	14511.41	38.72	
50	Casing Joints		69.035781	52.31	46.58	2356.17	14464.83	39.50	26 8.25" COMPOSITE
51	Casing Joints		70.424601	53.36	47.40	2403.57	14417.43	40.29	
52	Casing Joints		71.816351	54.41	47.50	2451.07	14369.93	41.09	27 8.25" COMPOSITE
53	Casing Joints		73.20312	55.46	47.33	2498.40	14322.60	41.88	
54	Casing Joints		74.597214	56.52	47.58	2545.98	14275.02	42.68	28 8.25" COMPOSITE
55	Casing Joints		75.93681	57.54	45.72	2591.70	14229.30	43.45	
56	Casing Joints		77.309515	58.58	46.85	2638.55	14182.45	44.23	29 8.25" COMPOSITE
57	Casing Joints		78.698335	59.63	47.40	2685.95	14135.05	45.03	
58	Casing Joints		80.076607	60.67	47.04	2732.99	14088.01	45.81	30 8.25" COMPOSITE
59	Casing Joints		81.419133	61.69	45.82	2778.81	14042.19	46.58	
60	Casing Joints		82.697492	62.66	43.63	2822.44	13998.56	47.31	31 8.25" COMPOSITE
61	Casing Joints		84.054375	63.69	46.31	2868.75	13952.25	48.09	
62	Casing Joints		85.43587	64.73	47.15	2915.90	13905.10	48.88	32 8.25" COMPOSITE
63	Casing Joints		86.789823	65.76	46.21	2962.11	13858.89	49.65	
64	Casing Joints		88.044449	66.71	42.82	3004.93	13816.07	50.37	33 8.25" COMPOSITE
65	Casing Joints		89.371739	67.72	45.30	3050.23	13770.77	51.13	
66	Casing Joints		90.759094	68.77	47.35	3097.58	13723.42	51.93	34 8.25" COMPOSITE
67	Casing Joints		92.140589	69.81	47.15	3144.73	13676.27	52.72	
68	Casing Joints		93.522963	70.86	47.18	3191.91	13629.09	53.51	35 8.25" COMPOSITE
69	Casing Joints		94.810698	71.84	43.95	3235.86	13585.14	54.24	
70	Casing Joints		96.137402	72.84	45.28	3281.14	13539.86	55.00	36 8.25" COMPOSITE
71	Casing Joints		97.492234	73.87	46.24	3327.38	13493.62	55.78	
72	Casing Joints		98.883105	74.92	47.47	3374.85	13446.15	56.57	37 8.25" COMPOSITE
73	Casing Joints		100.04485	75.80	39.65	3414.50	13406.50	57.24	
74	Casing Joints		101.43074	76.85	47.30	3461.80	13359.20	58.03	38 8.25" COMPOSITE
75	Casing Joints		102.539745	77.69	37.85	3499.65	13321.35	58.67	
76	Casing Joints		103.931788	78.75	47.51	3547.16	13273.84	59.46	39 8.25" COMPOSITE
77	Casing Joints		105.089724	79.62	39.52	3586.68	13234.32	60.12	
78	Casing Joints		106.481474	80.68	47.50	3634.18	13186.82	60.92	40 8.25" COMPOSITE
79	Casing Joints		107.763349	81.65	43.75	3677.93	13143.07	61.65	
80	Casing Joints		109.124627	82.68	46.46	3724.39	13096.61	62.43	41 8.25" COMPOSITE
81	Casing Joints		110.509345	83.73	47.26	3771.65	13049.35	63.23	
82	Casing Joints		111.676071	84.61	39.82	3811.47	13009.53	63.89	42 8.25" COMPOSITE
83	Casing Joints		113.046725	85.65	46.78	3858.25	12962.75	64.68	
84	Casing Joints		114.216967	86.54	39.94	3898.19	12922.81	65.35	43 8.25" COMPOSITE
85	Casing Joints		115.609303	87.59	47.52	3945.71	12875.29	66.14	
86	Casing Joints		116.935128	88.60	45.25	3990.96	12830.04	66.90	44 8.25" COMPOSITE
87	Casing Joints		118.308712	89.64	46.88	4037.84	12783.16	67.69	
88	Casing Joints		119.696067	90.69	47.35	4085.19	12735.81	68.48	45 8.25" COMPOSITE
89	Casing Joints		121.054122	91.72	46.35	4131.54	12689.46	69.26	
90	Casing Joints		122.44763	92.78	47.56	4179.10	12641.90	70.06	46 8.25" COMPOSITE
91	Casing Joints		123.754996	93.77	44.62	4223.72	12597.28	70.80	
92	Casing Joints		125.142058	94.82	47.34	4271.06	12549.94	71.60	47 8.25" COMPOSITE
93	Casing Joints		126.512712	95.86	46.78	4317.84	12503.16	72.38	
94	Casing Joints		127.873404	96.89	46.44	4364.28	12456.72	73.16	48 8.25" COMPOSITE
95	Casing Joints		129.18077	97.88	44.62	4408.90	12412.10	73.91	
96	Casing Joints		130.568125	98.93	47.35	4456.25	12364.75	74.70	49 8.25" COMPOSITE
97	Casing Joints		131.959289	99.98	47.48	4503.73	12317.27	75.50	
98	Casing Joints		133.346644	101.03	47.35	4551.08	12269.92	76.29	50 8.25" COMPOSITE
99	Casing Joints		134.733999	102.09	47.35	4598.43	12222.57	77.09	
100	Casing Joints		136.121354	103.14	47.35	4645.78	12175.22	77.88	51 8.25" COMPOSITE
101	Casing Joints		137.483511	104.17	46.49	4692.27	12128.73	78.66	
102	Casing Joints		138.6769	105.07	40.73	4733.00	12088.00	79.34	52 8.25" COMPOSITE
103	Casing Joints		140.068064	106.13	47.48	4780.48	12040.52	80.14	
104	Casing Joints		141.46626	107.19	47.72	4828.20	11992.80	80.94	53 8.25" COMPOSITE
105	Casing Joints		142.853615	108.24	47.35	4875.55	11945.45	81.73	
106	Casing Joints		144.225441	109.28	46.82	4922.37	11898.63	82.52	54 8.25" COMPOSITE
107	Casing Joints		145.609866	110.33	47.25	4969.62	11851.38	83.31	
108	Casing Joints		146.808529	111.23	40.91	5010.53	11810.47	83.99	55 8.25" COMPOSITE
109	Casing Joints		148.198814	112.29	47.45	5057.98	11763.02	84.79	
110	Casing Joints		149.556869	113.32	46.35	5104.33	11716.67	85.57	56 8.25" COMPOSITE

111	Casing Joints	150.943931	114.37	47.34	5151.67	11669.33	86.36	
	Marker B	151.222281	114.58	9.50	5161.17	11659.83	86.52	57 8.25" COMPOSITE
112	Casing Joints	152.441747	115.50	41.62	5202.79	11618.21	87.22	
113	Casing Joints	153.823242	116.55	47.15	5249.94	11571.06	88.01	58 8.25" COMPOSITE
114	Casing Joints	155.207374	117.60	47.24	5297.18	11523.82	88.80	
115	Casing Joints	156.596194	118.65	47.40	5344.58	11476.42	89.59	59 8.25" COMPOSITE
116	Casing Joints	157.977689	119.70	47.15	5391.73	11429.27	90.38	
117	Casing Joints	159.300584	120.70	45.15	5436.88	11384.12	91.14	60 8.25" COMPOSITE
118	Casing Joints	160.687939	121.75	47.35	5484.23	11336.77	91.93	
119	Casing Joints	161.996184	122.74	44.65	5528.88	11292.12	92.68	61 8.25" COMPOSITE
120	Casing Joints	163.223268	123.67	41.88	5570.76	11250.24	93.38	
121	Casing Joints	164.573998	124.69	46.10	5616.86	11204.14	94.16	62 8.25" COMPOSITE
122	Casing Joints	165.961939	125.75	47.37	5664.23	11156.77	94.95	
123	Casing Joints	167.350173	126.80	47.38	5711.61	11109.39	95.75	63 8.25" COMPOSITE
124	Casing Joints	168.720827	127.84	46.78	5758.39	11062.61	96.53	
125	Casing Joints	170.111991	128.89	47.48	5805.87	11015.13	97.33	64 8.25" COMPOSITE
126	Casing Joints	171.503448	129.94	47.49	5853.36	10967.64	98.12	
127	Casing Joints	172.742838	130.88	42.30	5895.66	10925.34	98.83	65 8.25" COMPOSITE
128	Casing Joints	174.040828	131.87	44.30	5939.96	10881.04	99.57	
129	Casing Joints	175.431992	132.92	47.48	5987.44	10833.56	100.37	66 8.25" COMPOSITE
130	Casing Joints	176.822863	133.98	47.47	6034.91	10786.09	101.17	
131	Casing Joints	178.129643	134.97	44.60	6079.51	10741.49	101.91	67 8.25" COMPOSITE
132	Casing Joints	179.520514	136.02	47.47	6126.98	10694.02	102.71	
133	Casing Joints	180.869486	137.04	46.04	6173.02	10647.98	103.48	68 8.25" COMPOSITE
134	Casing Joints	182.183884	138.04	44.86	6217.88	10603.12	104.23	
135	Casing Joints	183.575048	139.09	47.48	6265.36	10555.64	105.03	69 8.25" COMPOSITE
136	Casing Joints	184.963282	140.14	47.38	6312.74	10508.26	105.82	
137	Casing Joints	186.351516	141.19	47.38	6360.12	10460.88	106.62	70 8.25" COMPOSITE
138	Casing Joints	187.70752	142.22	46.28	6406.40	10414.60	107.39	
139	Casing Joints	188.90882	143.13	41.00	6447.40	10373.60	108.08	71 8.25" COMPOSITE
140	Casing Joints	190.202415	144.11	44.15	6491.55	10329.45	108.82	
141	Casing Joints	191.538202	145.12	45.59	6537.14	10283.86	109.58	72 8.25" COMPOSITE
142	Casing Joints	192.927608	146.18	47.42	6584.56	10236.44	110.38	
143	Casing Joints	194.317893	147.23	47.45	6632.01	10188.99	111.17	73 8.25" COMPOSITE
144	Casing Joints	195.709643	148.29	47.50	6679.51	10141.49	111.97	
145	Casing Joints	197.095826	149.34	47.31	6726.82	10094.18	112.76	74 8.25" COMPOSITE
146	Casing Joints	198.311776	150.26	41.50	6768.32	10052.68	113.46	
147	Casing Joints	199.69415	151.30	47.18	6815.50	10005.50	114.25	75 8.25" COMPOSITE
148	Casing Joints	201.07418	152.35	47.10	6862.60	9958.40	115.04	
149	Casing Joints	202.278703	153.26	41.11	6903.71	9917.29	115.73	76 8.25" COMPOSITE
150	Casing Joints	203.361045	154.08	36.94	6940.65	9880.35	116.35	
151	Casing Joints	204.511656	154.95	39.27	6979.92	9841.08	117.01	77 8.25" COMPOSITE
152	Casing Joints	205.713835	155.87	41.03	7020.95	9800.05	117.69	
153	Casing Joints	207.104999	156.92	47.48	7068.43	9752.57	118.49	78 8.25" COMPOSITE
154	Casing Joints	208.492354	157.97	47.35	7115.78	9705.22	119.28	
155	Casing Joints	209.858906	159.01	46.64	7162.42	9658.58	120.07	79 8.25" COMPOSITE
156	Casing Joints	211.085111	159.93	41.85	7204.27	9616.73	120.77	
157	Casing Joints	212.302233	160.86	41.54	7245.81	9575.19	121.46	80 8.25" COMPOSITE
158	Casing Joints	213.450793	161.73	39.20	7285.01	9535.99	122.12	
159	Casing Joints	214.659418	162.64	41.25	7326.26	9494.74	122.81	81 8.25" COMPOSITE
160	Casing Joints	215.885037	163.57	41.83	7368.09	9452.91	123.51	
161	Casing Joints	217.039457	164.45	39.40	7407.49	9413.51	124.17	82 8.25" COMPOSITE
162	Casing Joints	218.193584	165.32	39.39	7446.88	9374.12	124.83	
163	Casing Joints	219.376718	166.22	40.38	7487.26	9333.74	125.51	83 8.25" COMPOSITE
164	Casing Joints	220.608783	167.15	42.05	7529.31	9291.69	126.22	
165	Casing Joints	221.828249	168.07	41.62	7570.93	9250.07	126.91	84 8.25" COMPOSITE
166	Casing Joints	223.010211	168.97	40.34	7611.27	9209.73	127.59	
167	Casing Joints	224.337794	169.98	45.31	7656.58	9164.42	128.35	85 8.25" COMPOSITE
168	Casing Joints	225.54554	170.89	41.22	7697.80	9123.20	129.04	
169	Casing Joints	226.762955	171.81	41.55	7739.35	9081.65	129.74	86 8.25" COMPOSITE
170	Casing Joints	227.940815	172.71	40.20	7779.55	9041.45	130.41	
171	Casing Joints	229.333444	173.76	47.53	7827.08	8993.92	131.21	87 8.25" COMPOSITE
172	Casing Joints	230.725487	174.82	47.51	7874.59	8946.41	132.00	
173	Casing Joints	232.11753	175.87	47.51	7922.10	8898.90	132.80	88 8.25" COMPOSITE

174	Casing Joints		233.50635	176.92	47.40	7969.50	8851.50	133.60	
175	Casing Joints		234.893119	177.97	47.33	8016.83	8804.17	134.39	89 8.25" COMPOSITE
176	Casing Joints		236.270219	179.02	47.00	8063.83	8757.17	135.18	
177	Casing Joints		237.471519	179.93	41.00	8104.83	8716.17	135.86	90 8.25" COMPOSITE
178	Casing Joints		238.653188	180.82	40.33	8145.16	8675.84	136.54	
179	Casing Joints		239.832513	181.72	40.25	8185.41	8635.59	137.21	91 8.25" COMPOSITE
180	Casing Joints		240.986933	182.59	39.40	8224.81	8596.19	137.88	
181	Casing Joints		242.374581	183.64	47.36	8272.17	8548.83	138.67	92 8.25" COMPOSITE
182	Casing Joints		243.679896	184.63	44.55	8316.72	8504.28	139.42	
183	Casing Joints		245.030626	185.65	46.10	8362.82	8458.18	140.19	93 8.25" COMPOSITE
184	Casing Joints		246.264156	186.59	42.10	8404.92	8416.08	140.89	
185	Casing Joints		247.655906	187.64	47.50	8452.42	8368.58	141.69	94 8.25" COMPOSITE
186	Casing Joints		249.043261	188.69	47.35	8499.77	8321.23	142.48	
187	Casing Joints		250.372016	189.70	45.35	8545.12	8275.88	143.24	95 8.25" COMPOSITE
188	Casing Joints		251.771091	190.76	47.75	8592.87	8228.13	144.05	
189	Casing Joints		253.023666	191.71	42.75	8635.62	8185.38	144.76	96 8.25" COMPOSITE
190	Casing Joints		254.392562	192.75	46.72	8682.34	8138.66	145.55	
191	Casing Joints		255.784312	193.80	47.50	8729.84	8091.16	146.34	97 8.25" COMPOSITE
192	Casing Joints		257.176062	194.86	47.50	8777.34	8043.66	147.14	
193	Casing Joints		258.498664	195.86	45.14	8822.48	7998.52	147.89	98 8.25" COMPOSITE
194	Casing Joints		259.718423	196.78	41.63	8864.11	7956.89	148.59	
195	Casing Joints		261.110173	197.84	47.50	8911.61	7909.39	149.39	99 8.25" COMPOSITE
196	Casing Joints		262.497235	198.89	47.34	8958.95	7862.05	150.18	
197	Casing Joints		263.89045	199.94	47.55	9006.50	7814.50	150.98	100 8.25" COMPOSITE
198	Casing Joints		265.080616	200.85	40.62	9047.12	7773.88	151.66	
199	Casing Joints		266.312681	201.78	42.05	9089.17	7731.83	152.37	101 8.25" COMPOSITE
200	Casing Joints		267.706775	202.84	47.58	9136.75	7684.25	153.16	
201	Casing Joints		269.105557	203.90	47.74	9184.49	7636.51	153.96	102 8.25" COMPOSITE
202	Casing Joints		270.378349	204.86	43.44	9227.93	7593.07	154.69	
203	Casing Joints		271.751933	205.90	46.88	9274.81	7546.19	155.48	103 8.25" COMPOSITE
204	Casing Joints		272.963195	206.82	41.34	9316.15	7504.85	156.17	
205	Casing Joints		274.350257	207.87	47.34	9363.49	7457.51	156.96	104 8.25" COMPOSITE
206	Casing Joints		275.737026	208.92	47.33	9410.82	7410.18	157.76	
207	Casing Joints		277.009232	209.88	43.42	9454.24	7366.76	158.48	105 8.25" COMPOSITE
208	Casing Joints		278.390727	210.93	47.15	9501.39	7319.61	159.28	
209	Casing Joints		279.547491	211.81	39.48	9540.87	7280.13	159.94	106 8.25" COMPOSITE
210	Casing Joints		280.937776	212.86	47.45	9588.32	7232.68	160.73	
211	Casing Joints		282.309016	213.90	46.80	9635.12	7185.88	161.52	107 8.25" COMPOSITE
212	Casing Joints		283.54196	214.83	42.08	9677.20	7143.80	162.22	
	Marker C		284.234905	215.36	23.65	9700.85	7120.15	162.62	EOB 7135' 108 8.25" COMPOSITE
213	Casing Joints		285.535239	216.34	44.38	9745.23	7075.77	163.36	109 8.25" COMPOSITE
214	Casing Joints		286.74445	217.26	41.27	9786.50	7034.50	164.05	110 8.25" COMPOSITE
215	Casing Joints		288.134735	218.31	47.45	9833.95	6987.05	164.85	111 8.25" COMPOSITE
216	Casing Joints		289.367679	219.25	42.08	9876.03	6944.97	165.56	112 8.25" COMPOSITE
217	Casing Joints		290.586559	220.17	41.60	9917.63	6903.37	166.25	113 8.25" COMPOSITE
218	Casing Joints		291.78991	221.08	41.07	9958.70	6862.30	166.94	114 8.25" COMPOSITE
219	Casing Joints		293.1465	222.11	46.30	10005.00	6816.00	167.72	115 8.25" COMPOSITE
220	Casing Joints		294.320844	223.00	40.08	10045.08	6775.92	168.39	116 8.25" COMPOSITE
221	Casing Joints		295.599789	223.97	43.65	10088.73	6732.27	169.12	117 8.25" COMPOSITE
222	Casing Joints		296.976889	225.01	47.00	10135.73	6685.27	169.91	118 8.25" COMPOSITE
223	Casing Joints		298.353403	226.06	46.98	10182.71	6638.29	170.70	119 8.25" COMPOSITE
224	Casing Joints		299.746618	227.11	47.55	10230.26	6590.74	171.49	120 8.25" COMPOSITE
225	Casing Joints		300.979562	228.05	42.08	10272.34	6548.66	172.20	121 8.25" COMPOSITE
226	Casing Joints		302.366917	229.10	47.35	10319.69	6501.31	172.99	122 8.25" COMPOSITE
227	Casing Joints		303.708564	230.11	45.79	10365.48	6455.52	173.76	123 8.25" COMPOSITE
228	Casing Joints		305.100314	231.17	47.50	10412.98	6408.02	174.56	124 8.25" COMPOSITE
229	Casing Joints		306.499389	232.23	47.75	10460.73	6360.27	175.36	125 8.25" COMPOSITE
230	Casing Joints		307.891725	233.28	47.52	10508.25	6312.75	176.15	126 8.25" COMPOSITE
231	Casing Joints		309.25271	234.31	46.45	10554.70	6266.30	176.93	127 8.25" COMPOSITE
232	Casing Joints		310.645925	235.37	47.55	10602.25	6218.75	177.73	128 8.25" COMPOSITE
233	Casing Joints		311.868028	236.30	41.71	10643.96	6177.04	178.43	129 8.25" COMPOSITE
234	Casing Joints		313.086908	237.22	41.60	10685.56	6135.44	179.13	130 8.25" COMPOSITE
235	Casing Joints		314.308132	238.14	41.68	10727.24	6093.76	179.82	131 8.25" COMPOSITE
236	Casing Joints		315.677028	239.18	46.72	10773.96	6047.04	180.61	132 8.25" COMPOSITE

	<i>Marker D</i>		316.381986	239.72	24.06	10798.02	6022.98	181.01	<i>KOP 6005' 133 8.25" COMPOSITE</i>
237	<i>Casing Joints</i>		317.710155	240.72	45.33	10843.35	5977.65	181.77	<i>1 8.50" BOWSPRING</i>
238	<i>Casing Joints</i>		319.10044	241.78	47.45	10890.80	5930.20	182.57	<i>2 8.50" BOWSPRING</i>
239	<i>Casing Joints</i>		320.493655	242.83	47.55	10938.35	5882.65	183.36	<i>3 8.50" BOWSPRING</i>
240	<i>Casing Joints</i>		321.873685	243.88	47.10	10985.45	5835.55	184.15	<i>4 8.50" BOWSPRING</i>
241	<i>Casing Joints</i>		323.268365	244.93	47.60	11033.05	5787.95	184.95	<i>5 8.50" BOWSPRING</i>
242	<i>Casing Joints</i>		324.655427	245.98	47.34	11080.39	5740.61	185.74	<i>6 8.50" BOWSPRING</i>
243	<i>Casing Joints</i>		326.042196	247.04	47.33	11127.72	5693.28	186.54	<i>7 8.50" BOWSPRING</i>
244	<i>Casing Joints</i>		327.23998	247.94	40.88	11168.60	5652.40	187.22	<i>8 8.50" BOWSPRING</i>
245	<i>Casing Joints</i>		328.61122	248.98	46.80	11215.40	5605.60	188.01	<i>9 8.50" BOWSPRING</i>
246	<i>Casing Joints</i>		329.998575	250.03	47.35	11262.75	5558.25	188.80	<i>10 8.50" BOWSPRING</i>
247	<i>Casing Joints</i>		331.361025	251.07	46.50	11309.25	5511.75	189.58	<i>11 8.50" BOWSPRING</i>
248	<i>Casing Joints</i>		332.75424	252.12	47.55	11356.80	5464.20	190.38	<i>12 8.50" BOWSPRING</i>
249	<i>Casing Joints</i>		334.147455	253.18	47.55	11404.35	5416.65	191.18	<i>13 8.50" BOWSPRING</i>
250	<i>Casing Joints</i>		335.541549	254.23	47.58	11451.93	5369.07	191.97	<i>14 8.50" BOWSPRING</i>
251	<i>Casing Joints</i>		336.925681	255.28	47.24	11499.17	5321.83	192.76	<i>15 8.50" BOWSPRING</i>
252	<i>Casing Joints</i>		338.284615	256.31	46.38	11545.55	5275.45	193.54	<i>16 8.50" BOWSPRING</i>
253	<i>Casing Joints</i>		339.668161	257.36	47.22	11592.77	5228.23	194.33	<i>17 8.50" BOWSPRING</i>
254	<i>Casing Joints</i>		341.009515	258.38	45.78	11638.55	5182.45	195.10	<i>18 8.50" BOWSPRING</i>
255	<i>Casing Joints</i>		342.39687	259.43	47.35	11685.90	5135.10	195.89	<i>19 8.50" BOWSPRING</i>
256	<i>Casing Joints</i>		343.789206	260.48	47.52	11733.42	5087.58	196.69	<i>20 8.50" BOWSPRING</i>
257	<i>Casing Joints</i>		345.17158	261.53	47.18	11780.60	5040.40	197.48	<i>21 8.50" BOWSPRING</i>
258	<i>Casing Joints</i>		346.370243	262.44	40.91	11821.51	4999.49	198.17	<i>22 8.50" BOWSPRING</i>
259	<i>Casing Joints</i>		347.548689	263.33	40.22	11861.73	4959.27	198.84	<i>23 8.50" BOWSPRING</i>
260	<i>Casing Joints</i>		348.936044	264.38	47.35	11909.08	4911.92	199.64	<i>24 8.50" BOWSPRING</i>
261	<i>Casing Joints</i>		350.327794	265.44	47.50	11956.58	4864.42	200.43	<i>25 8.50" BOWSPRING</i>
262	<i>Casing Joints</i>		351.64688	266.44	45.02	12001.60	4819.40	201.19	<i>26 8.50" BOWSPRING</i>
263	<i>Casing Joints</i>		353.01519	267.47	46.70	12048.30	4772.70	201.97	<i>27 8.50" BOWSPRING</i>
264	<i>Casing Joints</i>		354.367385	268.50	46.15	12094.45	4726.55	202.74	<i>28 8.50" BOWSPRING</i>
265	<i>Casing Joints</i>		355.54378	269.39	40.15	12134.60	4686.40	203.42	<i>29 8.50" BOWSPRING</i>
266	<i>Casing Joints</i>		356.942855	270.45	47.75	12182.35	4638.65	204.22	<i>30 8.50" BOWSPRING</i>
267	<i>Casing Joints</i>		358.256081	271.44	44.82	12227.17	4593.83	204.97	<i>31 8.50" BOWSPRING</i>
268	<i>Casing Joints</i>		359.475547	272.37	41.62	12268.79	4552.21	205.67	<i>32 8.50" BOWSPRING</i>
269	<i>Casing Joints</i>		360.870227	273.42	47.60	12316.39	4504.61	206.46	<i>33 8.50" BOWSPRING</i>
270	<i>Casing Joints</i>		362.248792	274.47	47.05	12363.44	4457.56	207.25	<i>34 8.50" BOWSPRING</i>
271	<i>Casing Joints</i>		363.641128	275.52	47.52	12410.96	4410.04	208.05	<i>35 8.50" BOWSPRING</i>
272	<i>Casing Joints</i>		364.868798	276.45	41.90	12452.86	4368.14	208.75	<i>36 8.50" BOWSPRING</i>
273	<i>Casing Joints</i>		366.122252	277.40	42.78	12495.64	4325.36	209.47	<i>37 8.50" BOWSPRING</i>
274	<i>Casing Joints</i>		367.503747	278.45	47.15	12542.79	4278.21	210.26	<i>38 8.50" BOWSPRING</i>
275	<i>Casing Joints</i>		368.895497	279.50	47.50	12590.29	4230.71	211.06	<i>39 8.50" BOWSPRING</i>
276	<i>Casing Joints</i>		370.111447	280.43	41.50	12631.79	4189.21	211.75	<i>40 8.50" BOWSPRING</i>
277	<i>Casing Joints</i>		371.501439	281.48	47.44	12679.23	4141.77	212.55	<i>41 8.50" BOWSPRING</i>
278	<i>Casing Joints</i>		372.712408	282.40	41.33	12720.56	4100.44	213.24	<i>42 8.50" BOWSPRING</i>
279	<i>Casing Joints</i>		374.052297	283.41	45.73	12766.29	4054.71	214.01	<i>43 8.50" BOWSPRING</i>
280	<i>Casing Joints</i>		375.23924	284.31	40.51	12806.80	4014.20	214.68	<i>44 8.50" BOWSPRING</i>
281	<i>Casing Joints</i>		376.617805	285.36	47.05	12853.85	3967.15	215.47	<i>45 8.50" BOWSPRING</i>
282	<i>Casing Joints</i>		378.015415	286.41	47.70	12901.55	3919.45	216.27	<i>46 8.50" BOWSPRING</i>
283	<i>Casing Joints</i>		379.402184	287.47	47.33	12948.88	3872.12	217.07	<i>47 8.50" BOWSPRING</i>
284	<i>Casing Joints</i>		380.570668	288.35	39.88	12988.76	3822.24	217.74	<i>48 8.50" BOWSPRING</i>
285	<i>Casing Joints</i>		381.898544	289.36	45.32	13034.08	3786.92	218.49	<i>49 8.50" BOWSPRING</i>
286	<i>Casing Joints</i>		383.284434	290.41	47.30	13081.38	3739.62	219.29	<i>50 8.50" BOWSPRING</i>
287	<i>Casing Joints</i>		384.676184	291.46	47.50	13128.88	3692.12	220.08	<i>51 8.50" BOWSPRING</i>
288	<i>Casing Joints</i>		386.062074	292.51	47.30	13176.18	3644.82	220.88	<i>52 8.50" BOWSPRING</i>
289	<i>Casing Joints</i>		387.409874	293.53	46.00	13222.18	3598.82	221.65	<i>53 8.50" BOWSPRING</i>
290	<i>Casing Joints</i>		388.789904	294.58	47.10	13269.28	3551.72	222.44	<i>54 8.50" BOWSPRING</i>
291	<i>Casing Joints</i>		390.175794	295.63	47.30	13316.58	3504.42	223.23	<i>55 8.50" BOWSPRING</i>
292	<i>Casing Joints</i>		391.568716	296.68	47.54	13364.12	3456.88	224.03	<i>56 8.50" BOWSPRING</i>
293	<i>Casing Joints</i>		392.831546	297.64	43.10	13407.22	3413.78	224.75	<i>57 8.50" BOWSPRING</i>
294	<i>Casing Joints</i>		394.162059	298.65	45.41	13452.63	3368.37	225.51	<i>58 8.50" BOWSPRING</i>
295	<i>Casing Joints</i>		395.556153	299.70	47.58	13500.21	3320.79	226.31	<i>59 8.50" BOWSPRING</i>
296	<i>Casing Joints</i>		396.890768	300.72	45.55	13545.76	3275.24	227.07	<i>60 8.50" BOWSPRING</i>
297	<i>Casing Joints</i>		398.282518	301.77	47.50	13593.26	3227.74	227.87	<i>61 8.50" BOWSPRING</i>
298	<i>Casing Joints</i>		399.674854	302.83	47.52	13640.78	3180.22	228.67	<i>62 8.50" BOWSPRING</i>
299	<i>Casing Joints</i>		401.052247	303.87	47.01	13687.79	3133.21	229.45	<i>63 8.50" BOWSPRING</i>

300	Casing Joints	402.439602	304.92	47.35	13735.14	3085.86	230.25	64 8.50" BOWSPRING
301	Casing Joints	403.831352	305.97	47.50	13782.64	3038.36	231.04	65 8.50" BOWSPRING
302	Casing Joints	405.203178	307.01	46.82	13829.46	2991.54	231.83	66 8.50" BOWSPRING
303	Casing Joints	406.575883	308.05	46.85	13876.31	2944.69	232.61	67 8.50" BOWSPRING
304	Casing Joints	407.951518	309.10	46.95	13923.26	2897.74	233.40	68 8.50" BOWSPRING
305	Casing Joints	409.233393	310.07	43.75	13967.01	2853.99	234.13	69 8.50" BOWSPRING
306	Casing Joints	410.613423	311.11	47.10	14014.11	2806.89	234.92	70 8.50" BOWSPRING
307	Casing Joints	411.775461	311.99	39.66	14053.77	2767.23	235.59	71 8.50" BOWSPRING
308	Casing Joints	413.14172	313.03	46.63	14100.40	2720.60	236.37	72 8.50" BOWSPRING
309	Casing Joints	414.260394	313.88	38.18	14138.58	2682.42	237.01	73 8.50" BOWSPRING
310	Casing Joints	415.567174	314.87	44.60	14183.18	2637.82	237.76	74 8.50" BOWSPRING
311	Casing Joints	416.954529	315.92	47.35	14230.53	2590.47	238.55	75 8.50" BOWSPRING
312	Casing Joints	418.213843	316.87	42.98	14273.51	2547.49	239.27	76 8.50" BOWSPRING
313	Casing Joints	419.606179	317.93	47.52	14321.03	2499.97	240.07	77 8.50" BOWSPRING
314	Casing Joints	420.898309	318.91	44.10	14365.13	2455.87	240.81	78 8.50" BOWSPRING
315	Casing Joints	422.280097	319.95	47.16	14412.29	2408.71	241.60	79 8.50" BOWSPRING
316	Casing Joints	423.652216	320.99	46.83	14459.12	2361.88	242.38	80 8.50" BOWSPRING
317	Casing Joints	425.00529	322.02	46.18	14505.30	2315.70	243.16	81 8.50" BOWSPRING
318	Casing Joints	426.100524	322.85	37.38	14542.68	2278.32	243.78	82 8.50" BOWSPRING
319	Casing Joints	427.482898	323.89	47.18	14589.86	2231.14	244.58	83 8.50" BOWSPRING
320	Casing Joints	428.748072	324.85	43.18	14633.04	2187.96	245.30	84 8.50" BOWSPRING
321	Casing Joints	430.140408	325.91	47.52	14680.56	2140.44	246.10	85 8.50" BOWSPRING
322	Casing Joints	431.540948	326.97	47.80	14728.36	2092.64	246.90	86 8.50" BOWSPRING
323	Casing Joints	432.864722	327.97	45.18	14773.54	2047.46	247.65	87 8.50" BOWSPRING
324	Casing Joints	434.222777	329.00	46.35	14819.89	2001.11	248.43	88 8.50" BOWSPRING
325	Casing Joints	435.309807	329.83	37.10	14856.99	1964.01	249.05	89 8.50" BOWSPRING
326	Casing Joints	436.649989	330.84	45.74	14902.73	1918.27	249.82	90 8.50" BOWSPRING
327	Casing Joints	437.907838	331.79	42.93	14945.66	1875.34	250.54	91 8.50" BOWSPRING
328	Casing Joints	439.066653	332.67	39.55	14985.21	1835.79	251.20	92 8.50" BOWSPRING
329	Casing Joints	440.424122	333.70	46.33	15031.54	1789.46	251.98	93 8.50" BOWSPRING
330	Casing Joints	441.782177	334.73	46.35	15077.89	1743.11	252.76	94 8.50" BOWSPRING
331	Casing Joints	443.172462	335.78	47.45	15125.34	1695.66	253.55	95 8.50" BOWSPRING
332	Casing Joints	444.534326	336.81	46.48	15171.82	1649.18	254.33	96 8.50" BOWSPRING
333	Casing Joints	445.926955	337.87	47.53	15219.35	1601.65	255.13	97 8.50" BOWSPRING
334	Casing Joints	447.308157	338.92	47.14	15266.49	1554.51	255.92	98 8.50" BOWSPRING
335	Casing Joints	448.700786	339.97	47.53	15314.02	1506.98	256.71	99 8.50" BOWSPRING
336	Casing Joints	450.082281	341.02	47.15	15361.17	1459.83	257.50	100 8.50" BOWSPRING
337	Casing Joints	451.43975	342.05	46.33	15407.50	1413.50	258.28	101 8.50" BOWSPRING
338	Casing Joints	452.72016	343.02	43.70	15451.20	1369.80	259.01	102 8.50" BOWSPRING
339	Casing Joints	453.887765	343.90	39.85	15491.05	1329.95	259.68	103 8.50" BOWSPRING
340	Casing Joints	455.071485	344.80	40.40	15531.45	1289.55	260.36	104 8.50" BOWSPRING
341	Casing Joints	456.352774	345.77	43.73	15575.18	1245.82	261.09	105 8.50" BOWSPRING
342	Casing Joints	457.744524	346.82	47.50	15622.68	1198.32	261.89	106 8.50" BOWSPRING
343	Casing Joints	458.883708	347.69	38.88	15661.56	1159.44	262.54	107 8.50" BOWSPRING
344	Casing Joints	460.274872	348.74	47.48	15709.04	1111.96	263.34	108 8.50" BOWSPRING
345	Casing Joints	461.666622	349.80	47.50	15756.54	1064.46	264.13	109 8.50" BOWSPRING
346	Casing Joints	463.024091	350.82	46.33	15802.87	1018.13	264.91	110 8.50" BOWSPRING
347	Casing Joints	464.412325	351.88	47.38	15850.25	970.75	265.70	111 8.50" BOWSPRING
348	Casing Joints	465.799094	352.93	47.33	15897.58	923.42	266.50	112 8.50" BOWSPRING
349	Casing Joints	467.186449	353.98	47.35	15944.93	876.07	267.29	113 8.50" BOWSPRING
350	Casing Joints	468.578199	355.03	47.50	15992.43	828.57	268.09	114 8.50" BOWSPRING
351	Casing Joints	469.787117	355.95	41.26	16033.69	787.31	268.78	115 8.50" BOWSPRING
352	Casing Joints	471.173007	357.00	47.30	16080.99	740.01	269.57	116 8.50" BOWSPRING
353	Casing Joints	472.556553	358.05	47.22	16128.21	692.79	270.36	117 8.50" BOWSPRING
354	Casing Joints	473.891461	359.06	45.56	16173.77	647.23	271.13	118 8.50" BOWSPRING
355	Casing Joints	475.2753	360.11	47.23	16221.00	600.00	271.92	119 8.50" BOWSPRING
356	Casing Joints	476.666171	361.16	47.47	16268.47	552.53	272.71	120 8.50" BOWSPRING
357	Casing Joints	478.05294	362.21	47.33	16315.80	505.20	273.51	121 8.50" BOWSPRING
358	Casing Joints	479.357669	363.20	44.53	16360.33	460.67	274.25	
359	Casing Joints	480.685838	364.21	45.33	16405.66	415.34	275.01	
360	Casing Joints	482.077588	365.26	47.50	16453.16	367.84	275.81	
361	Casing Joints	483.273028	366.17	40.80	16493.96	327.04	276.49	
362	Casing Joints	484.660383	367.22	47.35	16541.31	279.69	277.29	
363	Casing Joints	486.047738	368.27	47.35	16588.66	232.34	278.08	

364	<i>Casing Joints</i>		487.431577	369.32	47.23	16635.89	185.11	278.87	
365	<i>Casing Joints</i>		488.822741	370.37	47.48	16683.37	137.63	279.67	
366	<i>Casing Joints</i>		490.178745	371.40	46.28	16729.65	91.35	280.45	
367	<i>Casing Joints</i>		491.56903	372.45	47.45	16777.10	43.90	281.24	
368	<i>Casing Joints</i>		492.950818	373.50	47.16	16824.26	-3.26	282.03	
369	<i>Casing Joints</i>				40.58				<i>1 OUT JOINT</i>
370	<i>Casing Joints</i>				45.98				<i>2 OUT JOINT</i>
371	<i>Casing Joints</i>				41.62				<i>3 OUT JOINT</i>
372	<i>Casing Joints</i>				42.10				<i>4 OUT JOINT</i>
373	<i>Casing Joints</i>				47.50				<i>5 OUT JOINT</i>
1	<i>MARKER E</i>				23.10				<i>1 OUT MARKER</i>
2	<i>MARKER F</i>				22.79				<i>2 OUT MARKER</i>
3	<i>MARKER G</i>				11.40				<i>3 OUT MARKER</i>
4	<i>MARKER H</i>				11.22				<i>4 OUT MARKER</i>