

SIMULATION TREATMENT REPORT



Date 28-OCT-11 District Brighton F. Receipt 1001863402 Customer NOBLE ENERGY INC - XML
 Lease HICKS #7-16J7 Well Name HICKS #7-16J7
 Field WATTENBERG Location 7-3N-67W
 County Weld State Colorado Stage No 1 Well API - API 05123177130000

WELL DATA		Well Type:	Well Class:		Depth TD/PB:		Formation:	
Geometry Type	Tubular Type	OD	Weight	ID	Grade	Top	Bottom	Perf Intervals
TUBULAR	CSG	3.5	7.7	3.068		0	7279	Top Bottom SPF Diameter
TUBULAR	TBG	2.375	4.7	1.995	N-80	0	6824	7164 7179 .27
TUBULAR	TBG	2.063	3.25	1.75	N-80	6824	7021	

Packer Type _____ Packer Depth 7021 FT

TREATMENT DATA				LIQUID PUMPED AND CAPACITIES IN BBLS.	
Fluid Type	Fluid Desc	Pumped Volume(Gals)	Prop. Description	Volume Pumped(Lbs)	
TREATMENT FLUID	Vistar 24	84,588	Sand, White, 20/40	246,180	Tubing Cap. <u>27</u>
PAD	Vistar 24	37,674			Casing Cap. <u>1.3</u>
Total Prop Qty:				<u>246,180</u>	Annular Cap. <u>26</u>
Previous Treatment <u>N/A</u> Previous Production <u>N/A</u>					Open Hole Cap. <u>0</u>
Hole Loaded With <u>Claytreat Water</u> Treat Via: Tubing <input checked="" type="checkbox"/> Casing <input type="checkbox"/> Anul. <input type="checkbox"/> Tubing & Anul. <input type="checkbox"/>					Fluid to Load <u>19</u>
Ball Sealers: <u>0</u> In <u>0</u> Stages Type _____					Pad Volume <u>897</u>
Auxiliary Materials <u>SEE REC</u>					Treating Fluid <u>1985</u>
					Flush <u>29</u>
					Overflush <u>0</u>
					Fluid to Recover <u>2911</u>

PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLS. Pumped		Slurry Rate BPM	Comments
	STP	Annulus	Stage	Total		
11:30	0	0	0	0	0	Leave Yard
12:30	0	0	0	0	0	Arrive Location
15:40	0	0	0	0	0	Safety Meeting
16:18	0	1555	0	0	0	Pressure Test Backside
16:24	0	0	0	0	0	Open Backside
16:25	8442	101	0	0	0	Pressure Test Mainline
16:44	18	100	0	0	0	Open Well/Packer Test
17:11	24	27	137	62	0	Shutdown Gel Up
17:27	2414	8	0	199	0	Shutdown/ISIP 2414 psi/ 5 min/ 022 psi
17:32	1022	12	699	199	0	Start X-link Pad
18:30	7022	14	248	898	13.8	Start 1# 20/40
18:47	6678	14	384	1146	13.8	Start 2# 20/40
19:17	6819	17	1491	1530	13.9	Start 2-4# 20/40 Ramp
21:13	6432	23	105	3021	12.7	Start 4# 20/40
21:22	6584	24	29	3126	6	Flush
21:26	3086	24	0	3155	0	Shutdown/ISIP psi/ 5 min psi
21:31	2821	0	0	0	0	Close Well

Treating Pressure		Injection Rates		Shut In Pressures		Customer Rep.
Minimum	2569	Treating Fluid	13.1	ISDP	3086	DAN BURGEMAN
Maximum	7299	Flush	6	5 Min.	2921	BJ Rep. WILLIAM W LESIAK
Average	6549	Average	13.1	10 Min.	0	Job Number 1001863402
Operators Max. Pressure 7500				15 Min.	0	Rec. ID No.
				Final	2821 In 5 Min.	Distribution
				Flush Dens. lb./gal.	8.34	

BJ Services Company



FIELD RECEIPT NO. 1001863402

CUSTOMER		CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER		INVOICE NUMBER	
NOBLE ENERGY INC - XML						20077336 - 00227588			
MAIL		STREET OR BOX NUMBER		CITY		STATE		ZIP CODE	
INVOICE TO :		100 GLENBOROUGH DR, STE 100		Houston		Texas		77067	
DATE WORK COMPLETED	MO.	DAY	YEAR	BJ SERVICES REPRESENTATIVE		WELL API NO:		WELL TYPE :	
	10	28	2011	WILLIAM W LESIAK		05123177130000		Old Well	
BJ SERVICES DISTRICT				JOB DEPTH (ft)		WELL CLASS :			
BRIGHTON				7,164		Gas			
WELL NAME AND NUMBER				TD WELL DEPTH (ft)		GAS USED ON JOB :			
HICKS #7-16J7				7,297		No Gas			
WELL LOCATION :		LEGAL DESCRIPTION		COUNTY/PARISH		STATE		JOB TYPE CODE :	
		7-3N-67W		Weld		Colorado		Fracture 0 - 9,999 PSI	

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
100002	Sand, White, 20/40	cwt	2461.8				
100175	GSW-5	lbs	15				
100214	GS-1A	lbs	200				
100377	XLW-14	gals	145				
411275	Frac-Cide 1000	lbs	21				
411321	GW-45LF	gals	807				
488157	High Perm CRB	lbs	20				
488166	BF-9L, 300 gal tote	gals	25				
488373	GSW-21	lbs	130				
488430	InFlo 250W	gals	185				
488584	NE-945, tote	gals	62				
499702	ClayCare, tote	gals	108				
A154	Pers Per Diem Chrg - Frac 1501-5000 HHP	ea	1				
F302C	Comp. Sand Proportioning, 11-20 bpm	2hrs	1				
F322C	Comp. Sand Proportioning, 11-20 bpm	hrs	2				

ARRIVE LOCATION :	MO.	DAY	YEAR	TIME	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.	SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.
CUSTOMER REP.						
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS						
DAN BURGEMAN					CUSTOMER AUTHORIZED AGENT	X
					BJ SERVICES APPROVED	X
					CUSTOMER AUTHORIZED AGENT	

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7-3N-67W				Weld		Colorado		Fracture 0 - 9,999 PSI			
PRODUCT CODE	DESCRIPTION			UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
F203A	Frac HHP, 6001- 7000 psi - Slurry			2hrs	2247						
F223A	Frac HHP, 6001- 7000 psi			hrs	4494						
F250	Fuel per pump charge - frac			pump/hr	12						
F251	Fuel per pump charge - frac - blender			pump/hr	4						
F780	Annulus Pump, 0 - 2500 psi			2hrs	1						
F785	Annulus Pump, 0- 2500 psi, after init			hrs	2						
J055	Liquid Additive Pump			job	1						
J229	Data Acquisition, Frac/Acid-Enhanced			job	1						
J301	Gel Monitoring			day	1						
J310	Sand King, less than 300,000 lb			day	1						
J321	Densimeter			job	1						
J336	LFC Hydration Unit			job	1						
J380	Pop-Off Release Valve			job	1						
J381	N2 pressurized pop-off valve			job	1						
J390	Mileage, Heavy Vehicle			miles	504						
J391	Mileage, Auto, Pick-Up or Treating Van			miles	112						
J459A	Proppant Conc Charge/0.1-1.0 lbs			gals	9912						
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CUSTOMER REP.								CUSTOMER AUTHORIZED AGENT			
DAN BURGEMAN								X			
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								X			

B

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				7-3N-87W				Weld				Colorado				Fracture 0 - 9,999 PSI									
PRODUCT CODE		DESCRIPTION						UNIT OF MEASURE		QUANTITY		LIST PRICE UNIT		GROSS AMOUNT		% DISC.		NET AMOUNT							
J460A		Proppant Conc Charge/1.1-4.0 lbs						gals		73416															
J401		Bulk Delivery, Dry Products						ton-mi		3447															
		FIELD ESTIMATE																103,240.00							
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																X									