

Report Date: 4/26/2019

Bedrock Aquifer Evaluation Determination Tool

Denver Basin Aquifer - Specific Location Determination Tool

Applicant: PDC - Gutttersen 44-11
(API 123-26350)

Reciept No:

Evaluated By:

Location: SE 1/4 of SE 1/4 of Sec. 11, T.3N, R.64W. (662 SSL, 637 ESL)

Basin Designation: Location is within the UNKNOWN Designated Ground Water Basin.

Ground Surface Elevation: 4740 Feet **Number of Acres:** 160

Warning! The depth intervals estimated in this area may vary from actual conditions due to lack of data and/or structural complexity.

Aquifer	Elevation (ft)		Net Sand	DEPTH (ft)		ANNUAL APRPROP. (A-F)	STATUS
	Bot	Top		Bot	Top		
Upper Dawson	--	--	--	--	--	--	--
Lower Dawson	--	--	--	--	--	--	--
Denver	--	--	--	--	--	--	--
Upper Arapahoe	--	--	--	--	--	--	--
Lower Arapahoe	--	--	--	--	--	--	--
Laramie-Fox Hills	4256	4591	168.6	484	149	40.47	NT

NOTE: 'E' indicates a location is at an aquifer boundary and the values may be more approximate.

Plug and Abandon Surface Casing Check

Operator	PDC					
API or Doc #	Gutttersen 44-11 (API 123-26350)			OG GR	WW GR	Elev Diff
SB5 Base of Fox Hills	484	50	534			
Deepest Water Well Within One Mile / number of wells		/				
Deepest Water Well Within Two Miles / number of wells	602	/	11	4740	4700	40
Sussex / Shannon Production within one mile	Y	/				
Operator Existing Surface Casing Depth	712					
Production Casing to be pulled	0					
Required aquifer protection depth in this well	602	40	50	692		

Water Wells Selected From Map
Filter Results by Depth

602 ft
11 wells 2 mi

WELL DESCRIPTION	LOCATION	WELL INFORMATION		
		Depth	Top Perf	Bottom Perf Aquifer
Receipt=9059911, Permit=7896--- L & F RANCH	NWSW 1 3.0 N -64.0 W	0	0	0 ALL UNNAMED AQUIFERS
Receipt=0263129, Permit=143611--- TWO E RANCHES	SWNW 10 3.0 N -64.0 W	220	120	220 ALL UNNAMED AQUIFERS
Receipt=9065297, Permit=72814--- L F RANCH CO	SENW 13 3.0 N -64.0 W	0	0	0 ALL UNNAMED AQUIFERS
Receipt=9060556, Permit=11048--- 2 E RANCHES INC	SENW 15 3.0 N -64.0 W	0	0	0 ALL UNNAMED AQUIFERS
Receipt=9058820, Permit=1832--- DALTON, HERB	NWNW 2 3.0 N -64.0 W	0	0	0 ALL UNNAMED AQUIFERS
Receipt=0350913A, Permit=-- BOOTH LAND & LIVESTOCK CO	SENW 2 3.0 N -64.0 W	0	0	0 ALL UNNAMED AQUIFERS
Receipt=C620379, Permit=379-WCB-- L-F RANCH	NWSE 2 3.0 N -64.0 W	42	0	0 ALL UNNAMED AQUIFERS
Receipt=0244840, Permit=103681--A-- L-F RANCH CO	SESW 2 3.0 N -64.0 W	602	0	0 ALL UNNAMED AQUIFERS
Receipt=9060555, Permit=11047--- 2 E RANCHES INC	SESW 23 3.0 N -64.0 W	0	0	0 ALL UNNAMED AQUIFERS
Receipt=0025527, Permit=103682--- L F RANCH	NESW 24 3.0 N -64.0 W	60	7	60 ALL UNNAMED AQUIFERS
Receipt=0013449, Permit=2707-AD-- KERN, ELEVATOR	SESE 35 4.0 N -64.0 W	0	0	0 ALL UNNAMED AQUIFERS

Oil and Gas Wells Selected

Filter Results by Formation

WELL DESCRIPTION	LOCATION ID	LOCATION	WELL INFORMATION	Formation	Top	Bottom	TD	Status
05-123-16980, TANIA BLUE D2-16 NOBLE ENERGY INC	329187	SESE 2 3N -64W (6) 40.248810, -104.511710	Sidetrack	0 NB-CD	6576	6854	7021	SI
				0 CODL	6844	6854	7021	PR
05-123-33326, GUTTERSEN D02-75HN NOBLE ENERGY INC	422612	SWSE 2 3N -64W (6) 40.247630, -104.518140	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NBRR	7070	11055	11143	PR
05-123-33327, TANIA D11-27D NOBLE ENERGY INC	422612	SWSE 2 3N -64W (6) 40.247630, -104.517980	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6822	7046	7200	PR
05-123-33329, TANIA D11-28 NOBLE ENERGY INC	422612	SWSE 2 3N -64W (6) 40.247630, -104.518060	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6628	6857	6979	PR
05-123-07840, TWO E RANCHES 14-11 KAISER-FRANCIS OIL COMPANY	406163	SWSW 11 3N -64W (6) 40.235537, -104.524452	Sidetrack	Formation	Top	Bottom	TD	Status
				0 JSND	7350	7386	7500	AB
05-123-11210, TWO E. 2-11 ACEITE ENERGY CORP	407597	NENW 11 3N -64W (6) 40.244427, -104.520822	Sidetrack	Formation	Top	Bottom	TD	Status AL
05-123-14193, TWO E RANCH 2-11 PDC ENERGY INC	327122	NENW 11 3N -64W (6) 40.245390, -104.520890	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6612	6845	6960	PR
05-123-15489, DUNCAN D 11-10 NOBLE ENERGY INC	328059	NWSE 11 3N -64W (6) 40.237330, -104.515220	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6632	6852	7575	SI
05-123-15490, DUNCAN D 11-12 NOBLE ENERGY INC	328060	NWSW 11 3N -64W (6) 40.238380, -104.525870	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6690	6908	7029	SI
				0 NBCSX	4380	6908	7029	CM
				0 SUSX	4380	4422	7029	SI
05-123-15777, DUNCAN D 11-5 NOBLE ENERGY INC	328266	SWNW 11 3N -64W (6) 40.241550, -104.525980	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6626	6904	6989	SI
				0 NBCSX	4356	6904	6989	SI
				0 SUSX	4356	4396	6989	SI
				0 NBRR	6626	6776	6989	CM
				0 CODL	6894	6904	6989	CM
05-123-15797, DUNCAN D 11-15 NOBLE ENERGY INC	328281	SWSE 11 3N -64W (6) 40.233967, -104.516168	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6654	6878	6965	SI
				0 NBCSX	4360	6878	6965	SI
				0 SUSX	4360	4392	6965	SI
05-123-15936, DUNCAN D 11-13 NOBLE ENERGY INC	328396	SWSW 11 3N -64W (6) 40.234180, -104.525870	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6705	6912	7038	SI
				0 NBCSX	4380	6922	7038	SI
				0 SUSX	4380	4414	7038	SI
05-123-15986, DUNCAN D 11-8 NOBLE ENERGY INC	328436	SENE 11 3N -64W (6) 40.241630, -104.511810	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6604	6828	6975	SI
				0 NBCSX	4256	6828	6975	SI
				0 SUSX	4256	4300	6975	SI
05-123-16061, DALBEY D 11-2 NOBLE ENERGY INC	328497	NWNE 11 3N -64W (6) 40.245280, -104.516300	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6622	6840	6975	SI
				0 NBCSX	4242	6840	6975	SI
				0 SUSX	4242	4280	6975	SI
05-123-17481, DUNCAN D 11-14 NOBLE ENERGY INC	329529	SESW 11 3N -64W (6) 40.234000, -104.521230	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6660	6887	7119	SI
				0 NBCSX	4325	6887	7119	SI
				0 SUSX	4325	4359	7119	SI
05-123-17521, DUNCAN D 11-11 NOBLE ENERGY INC	329556	NESW 11 3N -64W (6) 40.237890, -104.521450	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6542	6880	7143	SI
				0 NBRR	6542	6754	7143	CM
				0 CODL	6868	6880	7143	CM
05-123-17539, DUNCAN D 11-1 FREEDOM ENERGY INC	410027	NENE 11 3N -64W (6) 40.245337, -104.511512	Sidetrack	Formation	Top	Bottom	TD	Status AL
05-123-17540, DUNCAN D 11-7 NOBLE ENERGY INC	329570	SWNE 11 3N -64W (6) 40.241840, -104.516100	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6513	6834	6995	SI

05-123-17545, DUNCAN D 11-6 NOBLE ENERGY INC	329574 SENW 11 3N -64W (6) 40.241680, -104.520870	Sidetrack	Formation	Top	Bottom	TD	Status
05-123-17546, DUNCAN D 11-9 FREEDOM ENERGY INC	408896 NESE 11 3N -64W (6) 40.238407, -104.511482	Sidetrack	0 NB-CD	6645	6868	7096	SI
05-123-17547, DUNCAN D 11-16 FREEDOM ENERGY INC	409860 SESE 11 3N -64W (6) 40.234648, -104.511462	Sidetrack	Formation	Top	Bottom	TD	Status
05-123-23010, GUTTERSEN 16-11 KERR MCGEE OIL & GAS ONSHORE LP	409860 SESE 11 3N -64W (6) 40.234668, -104.511592	Sidetrack	Formation	Top	Bottom	TD	Status
05-123-26350, GUTTERSEN 44-11 PDC ENERGY INC	310398 SESE 11 3N -64W (6) 40.234360, -104.511280	Sidetrack	0 NB-CD	6616	6868	7039	SI
05-123-26351, GUTTERSEN 43-11 PDC ENERGY INC	310399 NESE 11 3N -64W (6) 40.238000, -104.511330	Sidetrack	Formation	Top	Bottom	TD	Status
05-123-26352, GUTTERSEN 41-11 PDC ENERGY INC	410027 NENE 11 3N -64W (6) 40.245310, -104.511310	Sidetrack	0 NB-CD	6612	6830	6996	SI
05-123-11197, L F RANCH 2-12 PDC ENERGY INC	319402 SWSW 12 3N -64W (6) 40.235310, -104.505420	Sidetrack	Formation	Top	Bottom	TD	Status
			0 J-CDL	6800	7325	7410	CM
			0 CODL	6800	6814	7410	AB
			0 JSND	7271	7325	7410	AB
05-123-17104, KARCH BLUE D 12-11 NOBLE ENERGY INC	329283 NESW 12 3N -64W (6) 40.238170, -104.501561	Sidetrack	Formation	Top	Bottom	TD	Status
05-123-17105, KARCH BLUE D 12-12 NOBLE ENERGY INC	329284 NWSW 12 3N -64W (6) 40.238130, -104.506310	Sidetrack	0 CODL	6821	6834	7005	PR
			Formation	Top	Bottom	TD	Status
			0 NB-CD	6570	6843	7010	PR
			0 CODL	6831	6843	7010	CM
05-123-17106, KARCH BLUE D 12-14 NOBLE ENERGY INC	329285 SESW 12 3N -64W (6) 40.234375, -104.501920	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6578	6836	6995	PR
			0 NBRR	6578	6630	6995	CM
			0 CODL	6822	6835	6995	PR
05-123-17225, SPIKE STATE D 12-3 NOBLE ENERGY INC	329354 NENW 12 3N -64W (6) 40.245310, -104.501860	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6608	6834	6994	PR
			0 NBRR	6608	6623	6994	CM
			0 CODL	6823	6835	6994	CM
05-123-17226, SPIKE STATE D 12-4 NOBLE ENERGY INC	329355 NWNW 12 3N -64W (6) 40.245030, -104.506970	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6558	6841	7003	PR
			0 NBRR	6558	6628	7003	CM
			0 CODL	6831	6841	7003	CM
05-123-17227, SPIKE STATE D 12-5 NOBLE ENERGY INC	329356 SWNW 12 3N -64W (6) 40.241690, -104.506580	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6600	6835	7003	PR
			0 NBRR	6600	6616	7003	CM
			0 CODL	6823	6835	7003	CM
05-123-17228, SPIKE STATE D 12-6 NOBLE ENERGY INC	329357 SENW 12 3N -64W (6) 40.241670, -104.501850	Sidetrack	Formation	Top	Bottom	TD	Status
05-123-22198, GUTTERERSEN STATE D 12-7JI NOBLE ENERGY INC	332364 SWNE 12 3N -64W (6) 40.242040, -104.497740	Sidetrack	0 CODL	6823	6835	6995	AB
			Formation	Top	Bottom	TD	Status
			0 NB-CD	6558	6842	7466	SI
			0 NBRR	6558	6626	7466	CM
			0 CODL	6830	6842	7466	CM
			0 JSND	7289	7350	7466	SI
05-123-22791, GUTTERSEN STATE D 12-19 NOBLE ENERGY INC	305314 NENW 12 3N -64W (6) 40.243640, -104.504130	Sidetrack	Formation	Top	Bottom	TD	Status
			0 JNBCD	6548	7368	7450	PR
			0 NB-CD	6548	6832	7450	SI
			0 NBRR	6548	6614	7450	CM
			0 CODL	6822	6832	7450	CM
			0 JSND	7292	7368	7450	PR
05-123-26269, GUTTERSEN 44-12 PDC ENERGY INC	310337 SESE 12 3N -64W (6) 40.234390, -104.492500	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6580	6809	7431	PR
			0 JSND	7264	7270	7431	AB
05-123-26270, GUTTERSEN 12D PDC ENERGY INC	310338 SESE 12 3N -64W (6) 40.236190, -104.494830	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6622	6854	7432	PR
			0 NBRR	6622	6712	7432	CM
			0 CODL	6846	6854	7432	CM

05-123-26272, GUTTERSEN 34-12 PDC ENERGY INC	310340 SWSE 12 3N -64W (6) 40.234390, -104.497140	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6535	6817	7434	PR
			0 NBRR	6535	6593	7434	CM
			0 CODL	6809	6817	7434	CM
05-123-26273, Guttersen 33-12 PDC ENERGY INC	310341 NWSE 12 3N -64W (6) 40.238000, -104.497250	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6613	6818	7432	PR
			0 NBRR	6613	6696	7432	CM
			0 CODL	6810	6818	7432	CM
			0 JSND	7272	7300	7432	AB
05-123-29028, GUTTERSEN D 12-25 NOBLE ENERGY INC	302372 NESW 12 3N -64W (6) 40.236479, -104.504047	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6613	6833	7011	PR
			0 NBRR	6613	6625	7011	CM
			0 CODL	6823	6833	7011	CM
05-123-29434, GUTTERSEN 12T PDC ENERGY INC	302593 SWSE 12 3N -64W (6) 40.232750, -104.494970	Sidetrack	Formation	Top	Bottom	TD	Status
							AL
05-123-29937, GUTTERSEN D 12-24 NOBLE ENERGY INC	302856 NESW 12 3N -64W (6) 40.236296, -104.499853	Sidetrack	Formation	Top	Bottom	TD	Status
							AL
05-123-29939, GUTTERSEN STATE D 12-21 NOBLE ENERGY INC	302858 SENW 12 3N -64W (6) 40.240015, -104.499848	Sidetrack	Formation	Top	Bottom	TD	Status
							AL
05-123-29940, GUTTERSEN STATE D 12-18 NOBLE ENERGY INC	302859 NENW 12 3N -64W (6) 40.243547, -104.499707	Sidetrack	Formation	Top	Bottom	TD	Status
							AL
05-123-31739, GUTTERSEN D 12-20 NOBLE ENERGY INC	417772 SWNW 12 3N -64W (6) 40.239910, -104.504640	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6565	6854	7015	PR
05-123-35405, Guttersen 12TD PDC ENERGY INC	310338 SESE 12 3N -64W (6) 40.235920, -104.494190	Sidetrack	Formation	Top	Bottom	TD	Status
							AL
05-123-35407, Guttersen 12SD PDC ENERGY INC	310338 SESE 12 3N -64W (6) 40.236060, -104.494170	Sidetrack	Formation	Top	Bottom	TD	Status
							AL
05-123-35409, Guttersen 12XD PDC ENERGY INC	310338 SESE 12 3N -64W (6) 40.235990, -104.494180	Sidetrack	Formation	Top	Bottom	TD	Status
							AL
05-123-13432, L.F. RANCH 13-4 PDC ENERGY INC	323730 NWNW 13 3N -64W (6) 40.229830, -104.505420	Sidetrack	Formation	Top	Bottom	TD	Status
			0 JNBCD	6590	7310	7376	SI
			0 JSND	7279	7310	7376	TA
			0 NB-CD	6590	6870	7376	SI
05-123-15781, DALBEY D 13-12 NOBLE ENERGY INC	328269 NWSW 13 3N -64W (6) 40.222180, -104.505460	Sidetrack	Formation	Top	Bottom	TD	Status
			0 JNC SX	4312	7334	7450	PR
			0 NB-CD	6614	6846	7450	PR
			0 SUSX	4312	4338	7450	SI
			0 JSND	7300	7334	7450	SI
05-123-16507, DALBEY D 13-11 NOBLE ENERGY INC	328846 NESW 13 3N -64W (6) 40.223490, -104.501420	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6598	6833	6968	SI
			0 CODL	6833	7819	6968	CM
05-123-26276, GUTTERSEN 32-13 PDC ENERGY INC	310343 SWNE 13 3N -64W (6) 40.227360, -104.496810	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6577	6800	7714	PR
			0 DKTA	7472	7494	7714	AB
			0 LKTA	7558	7568	7714	AB
05-123-26278, Guttersen 13C PDC ENERGY INC	310345 SENE 13 3N -64W (6) 40.228920, -104.494920	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6529	6806	7719	PR
			0 NBRR	6529	6590	7719	CM
			0 CODL	6798	6806	7719	CM
			0 DKTA	7476	7505	7719	AB
05-123-26279, GUTTERSEN 31-13 PDC ENERGY INC	310346 NWNE 13 3N -64W (6) 40.230720, -104.497190	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6531	6808	7740	PR
			0 NBRR	6531	6589	7740	CM
			0 CODL	6800	6808	7740	CM
05-123-26312, GUTTERSEN 12-13 PDC ENERGY INC	310367 SWNW 13 3N -64W (6) 40.227060, -104.506690	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6611	6837	7018	PR
05-123-26313, GUTTERSEN 22-13 PDC ENERGY INC	310368 SENW 13 3N -64W (6) 40.227060, -104.501920	Sidetrack	Formation	Top	Bottom	TD	Status
			0 NB-CD	6580	6808	7017	PR
05-123-26314, GUTTERSEN 21-13	310369 NENW 13 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status

PDC ENERGY INC	40.230690, -104.502060		0 NB-CD	6594	6815	7018	PR
05-123-28019, GUTTERSEN 13N	302254 SENW 13 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
PDC ENERGY INC	40.228830, -104.500110		0 NB-CD	6584	6803	6969	PR
05-123-15644, DALBEY D 14-6	328172 SENW 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.227410, -104.520930		0 NB-CD	6684	6911	7040	SI
			0 NBCSX	4340	6906	7040	SI
			0 SUSX	4340	4355	7040	AB
			0 NBRR	6684	6690	7040	CM
			0 CODL	6898	6911	7040	CM
05-123-15646, DALBEY D 14-7	328174 SWNE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.227030, -104.516440		0 NB-CD	6652	6883	6983	PR
			0 NBCSX	4320	6883	6983	PR
			0 SUSX	4320	4352	6983	PR
05-123-15702, DALBEY D 14-2	328211 NWNE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.229880, -104.514890		0 JNC SX	4294	7350	7647	SI
			0 NB-CD	6648	6872	7647	SI
			0 SUSX	4343	7294	7647	SI
			0 JSND	7326	7350	7647	SI
05-123-15776, DALBEY D 14-9	408725 NESE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
FREEDOM ENERGY INC	40.223298, -104.511342						AL
05-123-16015, SPIKE STATE GWS D 14-10	328458 NWSE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.223140, -104.515840		0 NB-CD	6674	6910	7070	SI
			0 SX-CD	4346	6910	7070	SI
			0 SUSX	4346	4366	7070	AB
			0 NBRR	6674	6690	7070	CM
			0 CODL	6900	6910	7070	CM
05-123-16032, SPIKE STATE GWS D 14-11	328474 NESW 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.223970, -104.520170		0 SX-CD	4356	6938	7132	PR
			0 SUSX	4356	4400	7132	AB
			0 CODL	6927	6938	7132	PR
05-123-16208, DALBEY D 14-8	328611 SENE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.227093, -104.511708		0 NB-CD	6625	6857	7006	SI
			0 NBCSX	4316	6857	7006	SI
			0 SUSX	4316	4341	7006	SI
05-123-16248, DALBEY D 14-1	328641 NENE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.230700, -104.511380		0 NB-CD	6640	6871	7023	SI
			0 NBCSX	4344	6871	7023	SI
			0 SUSX	4344	4390	7023	SI
05-123-17482, DALBEY D 14-3	329530 NENW 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.230420, -104.520210		0 NB-CD	6660	6888	7041	SI
05-123-19142, HSR-GUTTERSEN-STATE 4-14	330455 NWNW 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.230660, -104.525940		0 NB-CD	6692	6907	7045	AB
			0 NBCSX	4385	6907	7045	AB
			0 SUSX	4385	4389	7045	AB
			0 NBRR	6692	6695	7045	CM
			0 CODL	6903	6907	7045	CM
05-123-19143, HSR-GUTTERSEN-STATE 5-14	330456 SWNW 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.227400, -104.525850		0 NB-CD	6698	6916	7070	AB
			0 NBCSX	4421	6916	7070	AB
			0 SUSX	4421	4425	7070	AB
			0 NBRR	6698	6701	7070	CM
			0 CODL	6912	6916	7070	CM
05-123-25088, SPIKE D 14-9	306665 NESE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.223879, -104.510795		0 NB-CD	6668	6869	7490	SI
			0 NBRR	6668	6684	7490	CM
			0 CODL	6856	6869	7490	CM
05-123-28199, GUTTERSEN STATE D 14-23	302353 SESE 14 3N -64W (6)	Sidetrack	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.221495, -104.513568		0 JNBCD	6762	7406	7505	CM
			0 NB-CD	6762	6908	7505	PR

05-123-30200, GUTTERSEN STATE D 14-24
NOBLE ENERGY INC

410147 SESW 14 3N -64W (6) Sidetrack
40.221610, -104.518664

05-123-38321, CHANDLER STATE D15-74-1HN
NOBLE ENERGY INC

434756 NENE 15 3N -64W (6) Sidetrack
40.231844, -104.529363

05-123-38322, CHANDLER STATE D15-72-1HN
NOBLE ENERGY INC

434756 NENE 15 3N -64W (6) Sidetrack
40.231841, -104.529108

05-123-38323, CHANDLER STATE D15-73-1HN
NOBLE ENERGY INC

434756 NENE 15 3N -64W (6) Sidetrack
40.231842, -104.529233

0 NBRR	6762	6774	7505	CM
0 CODL	6896	6908	7505	CM
0 JSND	7356	7406	7505	PR
Formation	Top	Bottom	TD	Status
0 NB-CD	6708	6947	7094	PR
0 NBRR	6708	6804	7094	CM
0 CODL	6933	6947	7094	CM
Formation	Top	Bottom	TD	Status
0 NBRR	7350	11687	11785	PR
Formation	Top	Bottom	TD	Status
0 NBRR	7308	11445	11640	PR
Formation	Top	Bottom	TD	Status
0 NBRR	7237	11533	11629	PR