

Report Date: 4/4/2019

Bedrock Aquifer Evaluation Determination Tool

Denver Basin Aquifer - Specific Location Determination Tool

Applicant: PDC - State 5519 32-8
(API 123-20334)

Receipt No:

Evaluated By:

Location: SW 1/4 of NE 1/4 of Sec. 8, T.5N, R.63W. (2131 NSL, 1968 ESL)

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

Ground Surface Elevation: 4750 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	--	--	--	--	--	--	--

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

Plug and Abandon Surface Casing Check

Operator	ca					
API or Doc #	State 5519 32-8 (API 123-20334)			OG GR	WW GR	Elev Diff
SB5 Base of Fox Hills	NA	L-FH				
Deepest Water Well Within One Mile / number of wells		/				
Deepest Water Well Within Two Miles / number of wells	420	/	21	4750	4785	-35
Sussex / Shannon Production within one mile	N	/	N			
Operator Existing Surface Casing Depth	380					
Production Casing to be pulled	1700					
Required aquifer protection depth in this well	420	-35	50	435		

Water Wells Selected From Map
Filter Results by Depth

420 ft
21 wells

WELL DESCRIPTION	LOCATION	WELL INFORMATION			Aquifer
		Depth	Top Perf	Bottom Perf	
Receipt=0918785, Permit=-- GREELEY CITY OF	SENE 10 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=3665550, Permit=295201--- WELLS RANCH (WELLS, STEVEN T.)	NENW 15 5.0 N -63.0 W		0	0	0 LARAMIE FOX HILLS
Receipt=0918793, Permit=-- GREELEY CITY OF	NWSW 15 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918794, Permit=-- GREELEY CITY OF	NENE 17 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=3610303, Permit=271498--- S L W RANCH	NWSW 18 5.0 N -63.0 W	38	25		35 ALL UNNAMED AQUIFERS
Receipt=0254374, Permit=-- PUTNAM, LAKE	NWNE 19 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918784, Permit=-- GREELEY CITY OF	SENE 3 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918783, Permit=-- GREELEY CITY OF	SWNE 4 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0058577, Permit=310748--- COLORADO STATE BOARD OF LAND COMMISSIONER	NWNW 4 5.0 N -63.0 W	420	0		0 ALL UNNAMED AQUIFERS
Receipt=0058610, Permit=311159--- COLORADO STATE BOARD OF LAND COMMISSIONER	NWNW 4 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918781, Permit=-- GREELEY CITY OF	SENE 5 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=03357320, Permit=163702--- CENTRAL COLO WTR CONSERVANCY DIST	NESE 6 5.0 N -63.0 W		0	0	0 UNCONFINED SAN LUIS VALL
Receipt=0918791, Permit=-- GREELEY CITY OF	NENE 7 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918782, Permit=-- GREELEY CITY OF	NENE 8 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918792, Permit=-- GREELEY CITY OF	SWNE 9 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918787, Permit=-- GREELEY CITY OF	NESW 9 5.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0508810B, Permit=249115--A-- SLW RANCH COMPANY	SENE 1 5.0 N -64.0 W	100	10		20 ALL UNNAMED AQUIFERS
Receipt=C620655, Permit=655-WCB-- SMITH, D V	NESE 12 5.0 N -64.0 W	80	59		80 ALL UNNAMED AQUIFERS
Receipt=0210976, Permit=118414--- MC, KELVEY D	NENE 13 5.0 N -64.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918780, Permit=-- GREELEY CITY OF	NESE 32 6.0 N -63.0 W		0	0	0 ALL UNNAMED AQUIFERS
Receipt=0918779, Permit=-- GREELEY CITY OF	NWSW 32 6.0 N -63.0 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
05-123-19431, STATE WELLS 14-4 PDC ENERGY INC	330661	SWSW 4 5N -63W (6) 40.423250, -104.448530	Sidetrack	0 NB-CD	6535	6797	7036	AB
				0 NBRR	6535	6638	7036	CM
				0 CODL	6787	6797	7036	CM
05-123-20431, STATE 24-4 PDC ENERGY INC	331283	SESW 4 5N -63W (6) 40.423080, -104.443940	Sidetrack	Formation	Top	Bottom	TD	Status
				0 CODL	6754	6762	7049	AB
05-123-20929, STATE 13-4 PDC ENERGY INC	331580	NWSW 4 5N -63W (6) 40.427000, -104.449390	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6521	6630	7019	AB
				0 NBRR	6521	6630	7019	CM
				0 CODL	6793	6801	7019	CM
05-123-18862, UPV 5-11H3 SNYDER OIL CORP	409242	NESW 5 5N -63W (6) 40.426815, -104.463152	Sidetrack	Formation	Top	Bottom	TD	Status
								AL
05-123-18863, UPV 5-12H3 SNYDER OIL CORP	409243	NWSW 5 5N -63W (6) 40.426785, -104.467892	Sidetrack	Formation	Top	Bottom	TD	Status
								AL
05-123-18864, UPV 5-13H3 SNYDER OIL CORP	409244	SWSW 5 5N -63W (6) 40.423195, -104.467892	Sidetrack	Formation	Top	Bottom	TD	Status
								AL
05-123-18865, UPV 5-14H3 SNYDER OIL CORP	409245	SESW 5 5N -63W (6) 40.423216, -104.463152	Sidetrack	Formation	Top	Bottom	TD	Status
								AL
05-123-19021, UPV 5-10H3 SNYDER OIL CORP	409296	NWSE 5 5N -63W (6) 40.426765, -104.458322	Sidetrack	Formation	Top	Bottom	TD	Status
								AL
05-123-19022, UPV 5-15H3 SNYDER OIL CORP	309709	SWSE 5 5N -63W (6) 40.423216, -104.458352	Sidetrack	Formation	Top	Bottom	TD	Status
								AL
05-123-24997, WELLS RANCH - USX BB 5-23 NOBLE ENERGY INC	306605	NESE 5 5N -63W (6) 40.425250, -104.455510	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6518	6802	6973	AB
				0 NBRR	6518	6632	6973	CM
				0 CODL	6790	6802	6973	CM
05-123-24998, WELL RANCH - USX BB 5-25 NOBLE ENERGY INC	306606	NWSW 5 5N -63W (6) 40.425070, -104.465820	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6530	6790	7005	AB
				0 NBRR	6530	6650	7005	AB
				0 CODL	6780	6790	7005	AB
05-123-25281, WELLS RANCH-USX BB 5-15 NOBLE ENERGY INC	309709	SWSE 5 5N -63W (6) 40.423280, -104.458410	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6516	6795	6972	AB
				0 NBRR	6516	6624	6972	CM
				0 CODL	6784	6795	6972	CM
05-123-25282, WELLS RANCH-USX BB 5-13 NOBLE ENERGY INC	309710	SWSW 5 5N -63W (6) 40.422900, -104.468170	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6512	6797	6974	CM
				0 NBRR	6512	6624	6974	AB
				0 CODL	6787	6797	6974	AB
05-123-26196, WELLS RANCH - USX BB 5-10 NOBLE ENERGY INC	310299	NWSE 5 5N -63W (6) 40.426627, -104.457934	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6518	6804	6978	AB
				0 NBRR	6518	6628	6978	CM
				0 CODL	6794	6804	6978	CM
05-123-26210, WELLS RANCH - USX BB 5-9 NOBLE ENERGY INC	310310	NESE 5 5N -63W (6) 40.427179, -104.453200	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6494	6680	6928	AB
				0 NBRR	6494	6610	6928	CM
				0 CODL	6770	6780	6928	CM
05-123-26211, WELLS RANCH-USX BB 5-11 NOBLE ENERGY INC	310311	NESW 5 5N -63W (6) 40.427138, -104.462731	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6556	6796	6998	AB
				0 NBRR	6556	6622	6998	CM
				0 CODL	6786	6796	6998	CM
05-123-26231, WELLS RANCH -USX BB 5-12 NOBLE ENERGY INC	310322	NWSW 5 5N -63W (6) 40.426581, -104.467482	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6590	6779	6971	AB
				0 NBRR	6590	6608	6971	CM
				0 CODL	6769	6779	6971	CM
05-123-26242, WELLS RANCH -USX BB 5-16 NOBLE ENERGY INC	310327	SESE 5 5N -63W (6) 40.423544, -104.453927	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6514	6793	6966	AB

05-123-26469, WELLS RANCH - USX BB 5-14 NOBLE ENERGY INC	310488	SESW 5 5N -63W (6) 40.423503, -104.463001	Sidetrack	0 NBRR	6514	6626	6966	CM
				0 CODL	6783	6793	6966	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6518	6807	6974	AB
05-123-13258, SKURICH-ROTHER 44-6 PDC ENERGY INC	323603	SESE 6 5N -63W (6) 40.423390, -104.472440	Sidetrack	0 NBRR	6518	6633	6974	CM
				0 CODL	6795	6807	6974	AB
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6497	6782	7420	AB
05-123-13690, SKURICH 33-7 PDC ENERGY INC	326798	NWSE 7 5N -63W (6) 40.412360, -104.477080	Sidetrack	0 NBRR	6497	6686	7420	CM
				0 CODL	6773	6782	7420	CM
				Formation	Top	Bottom	TD	Status
				0 CD-FH	6461	6746	6837	CM
05-123-15068, SLW RANCH 44-7 PDC ENERGY INC	327718	SESE 7 5N -63W (6) 40.407720, -104.472530	Sidetrack	0 NBFHC	6461	6746	6837	SI
				0 NBRR	6461	6574	6837	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6462	6754	6904	PR
05-123-19433, SLW RANCH 42-7 PDC ENERGY INC	330663	SENE 7 5N -63W (6) 40.415830, -104.472610	Sidetrack	0 NBRR	6462	6574	6904	CM
				0 CODL	6742	6754	6904	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6473	6739	6974	SI
05-123-20044, SKURICH 43-7 PDC ENERGY INC	331025	NESE 7 5N -63W (6) 40.411670, -104.472560	Sidetrack	0 NBRR	6473	6572	6974	CM
				0 CODL	6728		6974	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6463	6746	7002	SI
05-123-20062, SLW RANCH 41-7 PDC ENERGY INC	331040	NENE 7 5N -63W (6) 40.419440, -104.472560	Sidetrack	0 NBRR	6463	6576	7002	CM
				0 CODL	6736	6744	7002	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6745	6560	7026	SI
05-123-20390, SKURICH/SLW RANCH 7A PDC ENERGY INC	331256	NWSE 7 5N -63W (6) 40.409780, -104.475000	Sidetrack	0 NBRR	6560	6760	7026	CM
				0 CODL	6737	6745	7026	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6499	6717	6950	PR
05-123-20487, SLW RANCH 7C PDC ENERGY INC	409573	NE 7 5N -63W (6) 40.417436, -104.474922	Sidetrack	0 NBRR	6499	6597	6950	CM
				0 CODL	6709	6717	6950	CM
05-123-15069, STATE 11-8 PDC ENERGY INC	327719	NWNW 8 5N -63W (6) 40.419640, -104.467830	Sidetrack	Formation	Top	Bottom	TD	Status
								AL
				0 NB-CD	6501	6790	6926	AB
				0 NBRR	6501	6617	6926	CM
05-123-19233, STATE LEASE 5519 22-8 PDC ENERGY INC	330516	SENW 8 5N -63W (6) 40.416310, -104.462780	Sidetrack	0 CODL	6778	6790	6926	CM
				Formation	Top	Bottom	TD	Status
05-123-19365, STATE 5519 13-8 PDC ENERGY INC	330619	NWSW 8 5N -63W (6) 40.411860, -104.468190	Sidetrack	0 NB-CD	6664	6848	7080	SI
				0 CODL	6838		7080	CM
05-123-19434, STATE 5519 33-8 PDC ENERGY INC	330664	NWSE 8 5N -63W (6) 40.411720, -104.458470	Sidetrack	Formation	Top	Bottom	TD	Status
				0 CODL	6762	6786	6981	AB
05-123-19822, STATE 5519 12-8 PDC ENERGY INC	330884	SWNW 8 5N -63W (6) 40.415560, -104.467920	Sidetrack	Formation	Top	Bottom	TD	Status
				0 NB-CD	6625	6802	7066	PR
05-123-19824, STATE 5519 23-8 PDC ENERGY INC	330886	NESW 8 5N -63W (6) 40.411750, -104.463140	Sidetrack	0 CODL	6793		7066	CM
				Formation	Top	Bottom	TD	Status
05-123-19924, STATE 5519 8-43 PDC ENERGY INC	330951	NESE 8 5N -63W (6) 40.411420, -104.453470	Sidetrack	0 CODL	6761	6771	7100	AB
				Formation	Top	Bottom	TD	Status
05-123-19925, STATE 5519 8-34 PDC ENERGY INC	330952	SWSE 8 5N -63W (6) 40.407890, -104.458330	Sidetrack	0 NB-CD	6593	6776	7000	SI
				0 NBRR	6593	6608	7000	CM
				0 CODL	6766	6776	7000	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6507	6778	7000	PR
				0 NBRR	6507	6610	7000	CM
				0 CODL	6768	6778	7000	CM
				Formation	Top	Bottom	TD	Status
				0 NB-CD	6514	6798	7000	PR

			0 NBRR	6514	6618	7000	CM
			0 CODL	6788	6798	7000	CM
05-123-20064, STATE 5519 24-8	331042	SESW 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.407580, -104.463780	0 CODL	6763	6771	7078	AB
05-123-20065, STATE 5519 14-8	331043	SWSW 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.407330, -104.468500	0 CODL	6741	6749	7014	AB
05-123-20136, STATE 5519 21-8	331089	NENW 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.418580, -104.463440	0 CODL	6812	6820	7045	AB
05-123-20333, STATE 5519 44-8	331221	SESE 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.407830, -104.454060	0 CODL	6775	6783	6978	AB
05-123-20334, STATE 5519 32-8	331222	SWNE 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.415310, -104.458780	0 CODL	6802	6810	7010	SI
05-123-20504, STATE 5519 8D	331329	NW 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.417390, -104.465560	0 CODL	6768	6776	7000	AB
05-123-20550, STATE 5519 8A	331353	SE 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.409780, -104.456860	0 CODL	6815	6822	7012	PR
05-123-20675, STATE 5519 31-8	331428	NWNE 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.419110, -104.458420	0 CODL	6790	6798	6994	AB
05-123-20676, STATE 5519 41-8	331429	NENE 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.419580, -104.454170	0 CODL	6786	6796	7751	AB
			0 JSND	7245		7751	AB
05-123-20677, STATE 5519 42-8	331430	SENE 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.415690, -104.453640	0 CODL	6769	6777	6880	AB
05-123-21056, STATE/SLW 8C	409645	NE 8 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.417556, -104.455942					AL
05-123-20147, NAT'L HOG FARM 14-9	331096	SWSW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.406940, -104.450390	0 CODL	6776	6785	6970	SI
05-123-20921, NHF 13-9	331573	NWSW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.412310, -104.448810	0 NB-CD	6559	6775	6975	SI
			0 NBRR	6559	6663	6975	CM
			0 CODL	6767	6775	6975	CM
05-123-20923, NHF 24-9	331575	SESW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.408080, -104.443610	0 NB-CD	6530	6773	6983	SI
			0 NBRR	6530	6628	6983	CM
			0 CODL	6765	6773	6983	CM
05-123-20924, NHF 21-9	331576	NENW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
PDC ENERGY INC		40.419810, -104.443920	0 NB-CD	6512	6772	6962	SI
			0 NBRR	6512	6611	6962	CM
			0 CODL	6764	6772	6962	CM
05-123-28074, 70 RANCH USX BB 09-11	302279	NESW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC		40.412058, -104.444178	0 NB-CD	6500	6774	6916	AB
			0 NBRR	6500	6604	6916	CM
			0 CODL	6764	6774	6916	CM
05-123-28083, 70 RANCH USX BB 09-05	302288	SWNW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC		40.416093, -104.449004	0 NB-CD	6536	6801	6936	SI
			0 NBRR	6536	6631	6936	CM
			0 CODL	6791	6801	6936	CM
05-123-29970, 70 RANCH 11-9	302881	NWNW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC		40.420030, -104.448290	0 NB-CD	6530	6789	7403	AB
			0 NBRR	6530	6622	7403	CM
			0 CODL	6777	6789	7403	CM
05-123-29971, 70 RANCH 12-9	410043	SWNW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC		40.415710, -104.448390					AL
05-123-29972, 70 RANCH 22-9	302882	SENW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC		40.416175, -104.444101	0 NB-CD	6520	6788	7649	SI
			0 NBRR	6520	6618	7649	CM
			0 CODL	6777	6788	7649	CM
05-123-30639, 70 RANCH USX BB 09-99HZ	302881	NWNW 9 5N -63W (6)	Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC		40.420624, -104.448388	0 NBRR	8697	10805	10821	TA
05-123-20709, STATE PETERSON 11-16	331454	NWNW 16 5N -63W (6)	Formation	Top	Bottom	TD	Status

PDC ENERGY INC	40.404330, -104.448500		0	CODL	6714	6722	6918	PR
05-123-19023, UPV 17-3H3	409297 NENW 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
SNYDER OIL CORP	40.405056, -104.463042							AL
05-123-19024, UPV 17-4H3	330950 NWNW 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
SNYDER OIL CORP	40.404966, -104.467762							AL
05-123-19026, UPV 17-6H3	409299 SENW 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
SNYDER OIL CORP	40.401426, -104.463042							AL
05-123-19923, NATIONAL HOG FARM 17-11	330950 NWNW 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
PDC ENERGY INC	40.404080, -104.467780		0	NB-CD	6481	6744	6943	SI
			0	NBRR	6481	6589	6943	CM
			0	CODL	6736	6744	6943	CM
05-123-20016, NATIONAL HOG FARM 17-21	331005 NENW 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
PDC ENERGY INC	40.404220, -104.462750		0	NB-CD	6568	6756	7429	PR
			0	NBRR	6568	6584	7429	CM
			0	CODL	6746	6756	7429	CM
			0	JSND	7204		7429	AB
05-123-20263, NATIONAL HOG FARM 41-17	331175 NENE 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
PDC ENERGY INC	40.404170, -104.454500		0	CODL	6745	6753	6931	AB
05-123-20269, NATIONAL HOG FARM 31-17	331179 NWNE 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
PDC ENERGY INC	40.404080, -104.458640		0	CODL	6738	6746	6972	SI
05-123-26144, 70 RANCH USX BB 17-19	310256 SENW 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.402310, -104.465430							AL
05-123-26145, 70 RANCH USX BB 17-17	310257 NWNE 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.402630, -104.456440							AL
05-123-41529, 70 Ranch State BB18-681	441834 NENE 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.405140, -104.453610		0	CARL	13045	14077	16023	CM
			0	CODL	10405	13916	16023	CM
			0	N-COM			16023	PR
			0	NFCC	7210	15213	16023	PR
			0	NBRR	8094	11051	16023	CM
			0	FTHYS	7210	15213	16023	CM
05-123-41530, 70 Ranch State BB18-689	441834 NENE 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.405240, -104.453610		0	N-COM			15845	PR
			0	NBRR	7042	15750	15845	PR
05-123-41531, 70 Ranch State BB18-662	441837 SENE 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.401750, -104.453400		0	CODL	11241	15931	16027	CM
			0	N-COM			16027	PR
			0	NBFHC	7229	15931	16027	PR
			0	NBRR	8788	14189	16027	CM
			0	FTHYS	7229	15218	16027	CM
05-123-41532, 70 Ranch State BB18-675	441837 SENE 17 5N -63W (6)	Sidetrack		Formation	Top	Bottom	TD	Status
NOBLE ENERGY INC	40.401860, -104.453410		0	N-COM			15870	PR
			0	NBRR	7108	15775	15870	PR