

willow 22-15-3L  
# 401 959842

Willow 22-14-2L  
# 401 959144

willow 22-16-1L  
# 401 960297

willow 22-17-2L  
# 401 961190

willow 22-18-3L  
# 401 961908

willow 22-5-4L  
# 401 961488

willow 22-19-1L  
# 401 962167

Willow 22-20-2L  
# 401 962353

willow 22-6-4L  
# 401 963069

willow 22-21-3L  
# 401 962536

#### SURFACE CASING CHECK

Well Name Willow 22 West Confluence DS

☒ New Drill ☐ Refiling ☐ Deepen ☐ Re-Enter ☐ Recomplete and Operate ☐ Plug and Abandon ☐ Casing Repair

SB5 Base of Fox Hills 1209' + 50' = 1259'

Cheyenne Basin Map Base of Fox Hills \_\_\_\_\_

Fox Hills Protection Area 5% Rule \_\_\_\_\_

Deepest Water Well w/in One Mile 1146' + 50' = 1190'

Operator-Proposed Surface Casing Depth 1500'

Actual Surface Casing Depth \_\_\_\_\_

Change Permit Surface Casing Depth from \_\_\_\_\_ to \_\_\_\_\_

OK on ☐ this well's or ☐ offset well's induction log at \_\_\_\_\_

No Sussex Production within 1 mile



**Bedrock Aquifer Evaluation Determination Tool**  
**Denver Basin Aquifer - Specific Location Determination Tool**

Applicant: Willow 22 West Pad  
Location: SW 1/4 of SW 1/4 of Sec. 22, T.1N, R.65W. (236 SSL, 1253 WSL)  
Basin Designation: Location is within the UNKNOWN Designated Groundwater Basin  
Ground Surface Elevation: 5091 Number of Acres: 160

Receipt Number:

Evaluated By:

Aquifer	Elevation (ft)		Net Sand	Depth (ft)		Annual Approp. (AF)	Status
	Bottom	Top		Bottom	Top		
Upper Dawson	--	--	--	--	--	--	--
Lower Dawson	--	--	--	--	--	--	--
Denver	--	--	--	--	--	--	--
Upper Arapahoe	4829	4944	52.4	262	147	14.25	NNT
Lower Arapahoe	4515	4754	86.7	576	337	23.58	NT
Laramie-Fox Hills	3882	4146	153.3	1209	945	36.79	NT

Elevation of the bottom and the depth to the bottom of the Upper Arapahoe aquifer are approximate and should be checked against the DENVER BASIN ATLAS NO. 3.



# COLORADO

## Oil & Gas Conservation Commission

Department of Natural Resources

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### Selected Items Report

Oil and Gas Wells Selected			
Filter Results by Formation <input type="text" value="Include"/> <input type="button" value="Filter"/>			
WELL DESCRIPTION	LOCATION ID	LOCATION	WELL INFORMATION

Water Wells Selected From Map					
Filter Results by Depth <input type="text" value="Greater than"/> <input type="text" value="500"/> <input type="button" value="Filter"/>					
WELL DESCRIPTION	LOCATION	WELL INFORMATION			
		Depth	Top Perf	Bottom Perf	Aquifer
Receipt=9062873, Permit=21771--- SPAYD, VERNON C	NWNE 21 1.0 N -65.0 W	510	464	510	ALL UNNAMED AQUIFERS
Receipt=0385024, Permit=188018--- WILSON KARL & DEBBIE	SESE 21 1.0 N -65.0 W	1,055	965	1,055	LARAMIE FOX HILLS
Receipt=0262820, Permit=31143-F-- LONG, LAWRENCE E	22 1.0 N -65.0 W	950	860	950	LARAMIE FOX HILLS
Receipt=0493173, Permit=245545--- HUMPHREY, JUDY H	NWNE 22 1.0 N -65.0 W	980	895	980	LARAMIE FOX HILLS
Receipt=0487996, Permit=240650--- BICKLE GREGORY V & DEBRA A	NESE 22 1.0 N -65.0 W	510	345	510	LOWER ARAPAHOE
Receipt=3681177B, Permit=306673--- RAIOLA, MICHAEL	NESE 27 1.0 N -65.0 W	1,140	1,040	1,140	LARAMIE FOX HILLS
Receipt=3681177B, Permit=306673--- RAIOLA, BETH	NESE 27 1.0 N -65.0 W	1,140	1,040	1,140	LARAMIE FOX HILLS
Receipt=0402372, Permit=198036--- CAMPBELL, MICHAEL	NENE 28 1.0 N -65.0 W	1,040	950	1,040	LARAMIE FOX HILLS



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## Selected Items Report

Oil and Gas Wells Selected					
Filter Results by Formation			Include	CARL CODL FTHYS	Filter
WELL DESCRIPTION	LOCATION ID	LOCATION	WELL INFORMATION		
05-123-41325, JOKER 26N1-9HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1843'	441273	SESE 9 1N -65W (6) 40.060441, -104.662422	Sidetrack Formation Top Bottom TD Status	00	N-COM 12052 PR
			00	NBRR	7761 11948 12052 PR
05-123-41326, JOKER 1N1-9HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1839'	441273	SESE 9 1N -65W (6) 40.060442, -104.662741	Sidetrack Formation Top Bottom TD Status	00	N-COM 12040 PR
			00	NBRR	7679 11932 12040 SI
05-123-41327, JOKER 27N2-9HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1829'	441273	SESE 9 1N -65W (6) 40.060444, -104.662847	Sidetrack Formation Top Bottom TD Status	00	N-COM 11852 PR
			00	NBRR	7582 11738 11852 PR
05-123-41328, JOKER 1N2-9HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1835'	441273	SESE 9 1N -65W (6) 40.060443, -104.662635	Sidetrack Formation Top Bottom TD Status	00	N-COM 11954 PR
			00	NBRR	7669 11843 11954 SI
05-123-41329, JOKER 27N1-9HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1851'	441273	SESE 9 1N -65W (6) 40.060445, -104.662952	Sidetrack Formation Top Bottom TD Status	00	NBRR 7617 11803 11921 SI
05-123-41330, JOKER 26N2-9HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1835'	441273	SESE 9 1N -65W (6) 40.060440, -104.662314	Sidetrack Formation Top Bottom TD Status	00	N-COM 11975 PR
			00	NBRR	7764 11858 11975 SI
05-123-41331, JOKER 1N3-9HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1825'	441273	SESE 9 1N -65W (6) 40.060441, -104.662527	Sidetrack Formation Top Bottom TD Status	00	N-COM 11936 PR
			00	NBRR	7669 11631 11936 SI
05-123-45246, ROBIN 9-18HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1823'	441273	SESE 9 1N -65W (6) 40.059612, -104.662507	Sidetrack Formation Top Bottom TD Status	00	NBRR 7667 18237 18279 PR
05-123-45247, ROBIN 9-15HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1827'	441273	SESE 9 1N -65W (6) 40.059611, -104.662724	Sidetrack Formation Top Bottom TD Status	00	NBRR 7703 18303 18345 PR
05-123-45248, ROBIN 9-14HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1845'	441273	SESE 9 1N -65W (6) 40.059613, -104.662829	Sidetrack Formation Top Bottom TD Status	00	NFCC 7981 18444 18490 PR
			00	NBRR	11788 12273 18490 CM
			00	FTHYS	12273 17776 18490 CM
			00	CODL	7981 18444 18490 CM
			00	CARL	8432 17139 18490 CM
05-123-45249, ROBIN 9-17HZ KERR MCGEE OIL & GAS ONSHORE LP TD - OK 1888'	441273	SESE 9 1N -65W (6) 40.059612, -104.662562	Sidetrack Formation Top Bottom TD Status	00	NFCC 7866 18317 18363 PR
			00	NBRR	12030 12305 18363 CM
			00	CODL	8082 18317 18363 CM
			00	CARL	7866 16113 18363 CM
			00	FTHYS	11258 18009 18363 CM
05-123-45250, ROBIN 9-16HZ TD - OK 1848'		SESE 9 1N -65W (6)	Sidetrack Formation Top Bottom TD Status		

KERR MCGEE OIL & GAS ONSHORE LP	441273	40.059612, -104.662669	00	NBRR	7486 18311 18356 PR
05-123-45251, ROBIN 9-13H KERR MCGEE OIL & GAS ONSHORE LP	441273	SESE 9 1N -65W (6) 40.059611, -104.662883	Sidetrack Formation Top Bottom TD Status	00	NBRR 7814 18356 18399 PR
05-123-18548, UPV 15-13L5 SNYDER OIL CORP	409130	SWSW 15 1N -65W (6) 40.046829, -104.655965	Sidetrack Formation Top Bottom TD Status		AL
05-123-41453, Long 22-15-3NCH CONFLUENCE DJ LLC	441625	NENW 22 1N -65W (6) 40.043350, -104.650826	Sidetrack Formation Top Bottom TD Status		AL
05-123-41454, Long 22-15-5CH CONFLUENCE DJ LLC	441625	NENW 22 1N -65W (6) 40.043418, -104.650887	Sidetrack Formation Top Bottom TD Status		AL
05-123-41455, Long 22-15-4NBH CONFLUENCE DJ LLC	441625	NENW 22 1N -65W (6) 40.043384, -104.650857	Sidetrack Formation Top Bottom TD Status		AL
05-123-41511, Long 22-15-2NBH CONFLUENCE DJ LLC	441625	NENW 22 1N -65W (6) 40.043316, -104.650796	Sidetrack Formation Top Bottom TD Status		AL
05-123-41512, Long 22-15-1CH CONFLUENCE DJ LLC	441625	NENW 22 1N -65W (6) 40.043282, -104.650766	Sidetrack Formation Top Bottom TD Status		AL
05-123-41513, Long 22-15-6NCH CONFLUENCE DJ LLC	441625	NENW 22 1N -65W (6) 40.043450, -104.650920	Sidetrack Formation Top Bottom TD Status	01	NBRR 7514 11802 11839 PR