

Run Time: 08:29 AM

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Run Date: 01/28/2016

Page 1 of 1

## LLD ACREAGE REPORT

Admin State: NM

Geo State: NM

MTR: 23 0250S 0350E

Section: 005

<u>Sur Type</u>	<u>Sur No</u>	<u>Lld Suff</u>	<u>NE</u> <u>NW</u> <u>SW</u> <u>SE</u>	<u>Sur Note</u>	<u>Dup</u> <u>Flg</u>	<u>Sub</u> <u>Surf</u>	<u>Acreage</u>
			<u>NNSS</u> <u>NNSS</u> <u>NNSS</u> <u>NNSS</u>				
			<u>EWWE</u> <u>EWWE</u> <u>EWWE</u> <u>EWWE</u>				
A			--XX --XX XXXX XXXX				480.000
L	1		X---				40.820
L	2		-X--				40.700
L	3		----	X--			40.580
L	4		----	-X--			40.460

Section 005 Total: 642.560

MTR Total Excluding Survey Notes C/D/R  
and Sub Surf = Y 642.560Grand Total Excluding Survey Notes C/D/R  
and Sub Surf = Y: 642.560





# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">CP 00365</a>			XX	3	3	1	10	24S	35E	654253	3567431*	190		
<a href="#">CP 00573</a>			LE	1	4	1	10	24S	35E	654657	3567638*	405	300	105
<a href="#">CP 00839</a>			LE		4	3	30	24S	35E	650017	3561833*	175		
<a href="#">CP 00842</a>			LE		2	4	24	24S	35E	658834	3563982*	130		
<a href="#">CP 00845</a>			LE		1	3	10	24S	35E	654360	3567130*	190		
<a href="#">CP 01056 POD1</a>			LE	4	4	3	02	24S	35E	656465	3568304	5396	4399	997
<a href="#">CP 01057 POD1</a>			LE	4	2	3	02	24S	35E	656464	3568762	5390	4365	1025
<a href="#">CP 01513 POD1</a>			LE	3	3	1	10	24S	35E	654184	3567350	186	178	8
<a href="#">P 04623 POD4</a>			RO	2	2	4	14	24S	35E	653797	3787492	250		

Average Depth to Water: **2310 feet**

Minimum Depth: **178 feet**

Maximum Depth: **4399 feet**

Record Count: 9

PLSS Search:

Township: 24S

Range: 35E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.





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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

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No records found.

PLSS Search:

**Section(s):** 32

**Township:** 24S

**Range:** 35E





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>C 02296</u>	CUB	LE		1	3	2	18	25S	35E	650398	3556305*	300	230	70
<u>C 02297</u>	CUB	LE		2	2	1	21	25S	35E	653436	3555140*	300	230	70
<u>C 02298</u>	CUB	LE		2	2	1	21	25S	35E	653436	3555140*	250	205	45
<u>C 02388</u>		LE				3	05	25S	35E	651467	3558832*	180	165	15
<u>CP 00178</u>		LE		2	1	1	24	25S	35E	657867	3555206*	240		
<u>CP 00183</u>		LE		4	2	3	13	25S	35E	658256	3555818*	240		

Average Depth to Water: **207 feet**

Minimum Depth: **165 feet**

Maximum Depth: **230 feet**

Record Count: 6

PLSS Search:

Township: 25S

Range: 35E

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

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(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>C 02388</u>			LE				3 05	25S	35E	651467	3558832*	180	165	15

Average Depth to Water: **165 feet**

Minimum Depth: **165 feet**

Maximum Depth: **165 feet**

Record Count: 1

PLSS Search:

**Section(s): 5**

**Township: 25S**

**Range: 35E**

\*UTM location was derived from PLSS - see Help

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**COG OPERATING LLC Pre-Drill Geological Prognosis  
3rd Bone Spring Sand Extended Lateral with Pilot Hole  
Field:**

<b>3BS</b>	<b>+PH</b>
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<b>Skull Cap Fed Com #2H</b>
<b>Enter API#</b>

Rig:	<b>McVay #8</b>
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Target Zone: 3rd Bone Spring Sand					
Regular section	FNL	FSL	FEL	FWL	Unit
§-T-R (SHL) S32-24S-35E		2590	1980		J
§-T-R (BHL) S5-25S-35E		330	1980		O

GL:	3286	actual
KB:	3312	actual

PROPOSED WELL				REFERENCE WELL	
COG OPERATING LLC				COG Operating LLC	
Skull Cap Fed Com #2H				Fez Fee #11H (pilot)	
S32-24S-35E				S9-25S-35E	
Lea Co., NM				Lea Co., NM	
KB:	3312	Est. MD: 19700	AFE type: TopHat BSS PH	KB: 3288	

Formations	TVD	Subsea	Iso to Tgt	Lith	Hazards/Misc	TVD	Subsea	Iso
Rustler	789	2523		Mixed lithologies		741	2547	355
TOS	1227	2085		Salt		1096	2192	4061
BOS (Fletcher)	5126	-1814		Anhydrite		5157	-1869	133
LMAR (Top Delaware)	5341	-2029		Limestone		5290	-2002	30
BLCN	5377	-2065		Silt, Sand & Carb		5320	-2032	931
CYCN	6325	-3013		Silt, Sand & Carb		6250	-2962	1547
BYCN	7872	-4560		Silt, Sand & Carb		7797	-4509	1253
Bone Sprg (BSGL)	9187	-5875		Limestone		9050	-5762	22
U Avalon/LNRD Sh	9237	-5925	3155	Silt, Shale & Carb		9073	-5785	206
U Avalon Sh	9462	-6150	2930	Silt, Shale & Carb		9279	-5991	1114
FBSG sand	10464	-7152	1928	Fine Sand & Carb		10392	-7104	519
SBSG sand	11000	-7688	1392	Fine Sand & Carb		10911	-7623	1071
☆ TBSG sand	12022	-8710	370	Fine Sand & Carb		11983	-8695	366
WFMP	12417	-9105		Fine Sand & Carb		12349	-9061	103
WFMP Lith	12512	-9200		Silt, Shale & Carb		12452	-9164	N/A
PSLV	13332	-10020		Silt, Shale & Carb		N/A	N/A	
EOC target	12392	-9080						
EOL target	12406	-9094						

Est. incl.	89.89
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**Comments**

1.5 Mile Extended Lateral with Pilot Hole to Upper Wolfcamp. MWD-GR through curve and lateral.

**Wireline Evaluation**

PH Logs - See Logging Prognosis

**Coring and Testing**

**Mudlogging**

Log out from 4000' with a 2-man unit keeping 1 set of 20' samples & capturing 1' drill time.

**Land** (obligations and deadlines)

**Version/Geologist**

v2 Carrie Martin

DATE: 1/27/2016

S:\Delaware Basin Team\Electronic Well Files\OPERATED\SKULL CAP FED COM #2H\AFE-DRLG