

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Thursday, November 14, 2013 7:30 AM
To: 'Amber Cannon'
Cc: Bob Asher
Subject: RE: Punch BJD Federal #1 - Depth to Groundwater

Amber,

This estimation of depth to groundwater is based on some really old data and an assumption or two. The water well data I used is from the OSE data base and is in 7-26s-27e. OSE shows the Lat/Long for the well as 32.054379N - 104.226288W. I believe the actual site is approximately 100 yards to the south. There are some corrals and what appears to be old water tanks at this location. The POD number for the water well is C 02218. It was drilled in 1926 and shows total depth of the well to be 35'. The elevation at the water well site is 3193'. If the well is set at 35' bgs, assume conservatively that depth to ground water is 10', that puts ground water elevation at 3183'. The elevation at the Punch site, which is approximately 1.5 miles to the north/northwest in section 6, is 3307'. Assuming this aquifer is even still there, and it lays relatively flat in relation to the topography in the area, I think an assumption could be made that ground water may be encountered at 124' bgs at the Punch site.

That is my best guess based on the available data. You guys could drill a well to determine actual depth if you want to.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Amber Cannon [<mailto:ACannon@yatespetroleum.com>]
Sent: Wednesday, November 13, 2013 7:15 PM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher
Subject: Punch BJD Federal #1 - Depth to Groundwater

Mike,

This is written confirmation of the voicemail you left me this afternoon concerning the depth to groundwater for the Punch BJD Federal #1.

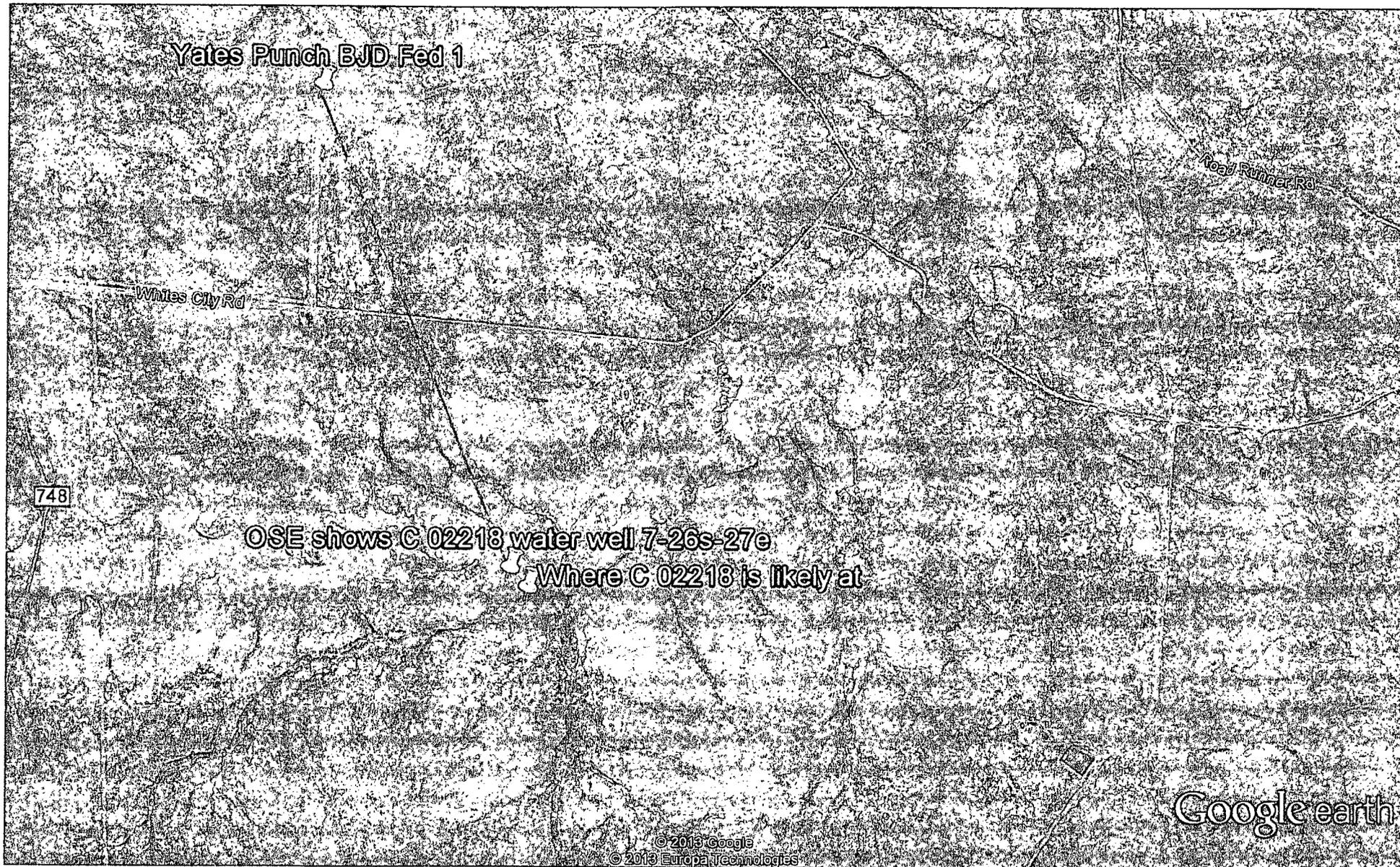
You stated that the depth of water for the closest water well recorded is 30'.
You stated the Punch BJD Federal #1 is 114' higher in elevation than the recorded water well.
You are confident that the depth to groundwater from the Punch BJD Federal #1 is greater than 100', giving this site a site ranking of (0) zero.

I will submit an Initial C-141 based off this information and site ranking.

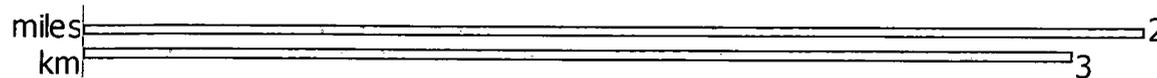
Please confirm this information for our spill well records.

Thanks for your help in determining depth to groundwater for this producing location.

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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 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02218	CUB	ED	4	1	4	07	26S	27E	573039	3546725*		35		
C 02219	CUB	ED	4	4	4	05	26S	27E	575033	3547948*		35		
C 02474	CUB	ED	4	3	02	26S	27E	578964	3548029*		100			
C 02475	CUB	ED	2	4	13	26S	27E	581450	3545252*		100			
C 02476	CUB	ED	4	1	24	26S	27E	580653	3544032*		150			
C 02930	C	ED	2	3	4	22	26S	27E	577938	3543284*		100	50	50

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 6

PLSS Search:

Township: 26S

Range: 27E

*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.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C 02218	4	1	4	07	26S	27E	573039	3546725*

Driller License:

Driller Name: J. F. FOREHAND

Drill Start Date:

Drill Finish Date: 05/01/1926

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 7 GPM

Casing Size: 6.00

Depth Well: 35 feet

Depth Water:

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C 02219	4	4	4	05	26S	27E	575033	3547948*

Driller License:

Driller Name: W. A. FOREHAND

Drill Start Date:

Drill Finish Date: 06/01/1926

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 7 GPM

Casing Size: 7.00

Depth Well: 35 feet

Depth Water:

*UTM location was derived from PLSS - see Help

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Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

C 02930

2 3 4 22 26S 27E

577938 3543284*

Driller License: B & H DRILLING

Driller Name:

Drill Start Date: 09/06/2002

Drill Finish Date: 09/12/2002

Plug Date:

Log File Date: 12/19/2002

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 120 GPM

Casing Size: 6.00

Depth Well: 100 feet

Depth Water: 50 feet

Water Bearing Stratifications:

Top Bottom Description

50 62 Sandstone/Gravel/Conglomerate

80 100 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

50 100

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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	POD Sub-Code				Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				Q	Q	Q	Q								
C 02588	C	ED		3	4	3	33	25S	27E	575645	3549575*	81	19	62	
C 03261 POD1		ED		3	2	1	20	25S	27E	574007	3554006*	351			
C 03262 POD1	C	ED		2	1	2	22	25S	27E	577837	3554244*	75			
C 03264 POD1	C	ED		2	1	2	02	25S	27E	579391	3559099*				

Average Depth to Water: **19 feet**

Minimum Depth: **19 feet**

Maximum Depth: **19 feet**

Record Count: 4

PLSS Search:

Township: 25S

Range: 27E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

C 02588

3 4 3 33 25S 27E

575645 3549575*

Driller License: TAYLOR WATER WELL SERVICE

Driller Name:

Drill Start Date: 05/31/1998

Drill Finish Date: 06/03/1998

Plug Date:

Log File Date: 08/24/1998

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 2 GPM

Casing Size: 5.00

Depth Well: 81 feet

Depth Water: 19 feet

Water Bearing Stratifications:	Top	Bottom	Description
	21	23	Other/Unknown
	52	81	Other/Unknown

Casing Perforations:	Top	Bottom
	53	81

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