

Ezeanyim, Richard, EMNRD

From: Pecore, Doug W <Doug.W.Pecore@conocophillips.com>
Sent: Thursday, June 06, 2013 3:57 PM
To: Ezeanyim, Richard, EMNRD
Subject: Additional Information for VGEU C-108 ConocoPhillips
Attachments: Attach_3_VGEU2012_inj_permit_wells_csgcmt.xls; P&A Schematics Final for VGEU C-108 revised 6-6-13.pdf

Richard,

Here is a slightly revised well list for the 1/2 mile Area of Review. The well count is:

160 producers
20 P&A wells
2 TA wells
182 total wells

Through this well count research, I located 2 additional P&A wells that should have been included on the original submission. These are the VGEU 37-02 and the VGEU 15-02. These wellbore diagrams are included in the following updated attachment to Attachment #5:

Hopefully this will answer your latest question. Please call me if you have any questions.

Thanks

Doug Pecore
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Attachment 5
Vacuum Glorieta East Unit
Well Schematics of Plugged and Abandoned Wells

Well bore diagrams, for plugged and abandoned wells, included in this submittal are listed below.

Well Name and Number	API Number
New Mexico CG State 2 #1 (also known as VGEU 046 #1)	30-025-20957
VGEU 032-01	30-025-20799
VGEU 047-01	30-025-20958
EVGSAU 3236-002	30-025-02977
State B 1576 #009	30-025-32515
VGEU 002-05	30-025-20713
VGEU 019-02	30-025-20845
VGEU 019-03	30-025-20847
VGEU 025-03	30-025-20885
VGEU 001-08	30-025-20722
VGEU 002-06	30-025-20709
VGEU 014-01	30-025-20802
VGEU 026-01	30-025-20883
VGEU 039-01	30-025-02938
Warn State AC 1 #003	30-025-20748
Central Vacuum Unit #060	30-025-25707
Vacuum Glorieta West Unit #119	30-025-21108

The April 1, 2011 Application for Authorization to Inject included the following well bore diagrams that are near the area.

- East Vacuum GB-SA Unit 3202-002
- East Vacuum GB-SA Unit 3308-001
- East Vacuum GB-SA Unit 0449-002W
- East Vacuum GB-SA Unit 0449-039
- Hoover 32-6
- Vacuum Glorieta East Unit 018-01
- Vacuum Glorieta East Unit 037-04
- Vacuum Glorieta East Unit Ph4 19-026
- Warn State 1 #3 (API # 30-025-20748)
- Texaco Central Vacuum Unit #94

WELLBORE SKETCH

Date: June 4, 2013

RKB @ 3979'
DF @ 3978'
GL @ 3968'



15' Hole

Spot 16 sx cmt 350' - Surf

Spot 10 sx cmt @ 1750' - 1344'

11-3/4\" 42# @ 1670'

Cmt'd w/ 1,000 sx, circ

TOC @ Surface

Top Salt @ +/- 1778'

Perf @ 1690' - Sqz w/975 sx 1690-100'

Spot 16 sx cmt @ 3000' - 2391'

Base of Salt @ +/- 2730'

Spot 5 sx cmt @ 4500' - 4297'

Spot 10 sx cmt @ 6044' - 5638'

6151 6160 6165

6171 6177

7-7/8\" Hole

2-7/8\" 6.5# @ 6250'

Cmt'd w/ 1,000 sx

TOC @

PBTD: 6241'
TD: 6252'

Subarea: Buckeye
Lease & Well No.: Texaco NM "CG" State NCT-2 No. 1
Legal Description: 2310' FNL & 1750' FWL, Sec. 29, T17S, R35E, UL "F"
County: Lea State: New Mexico
Field: Vacuum Gorieta
Date Spudded: 7/27/64 Rig Released: 8/17/64
API Number: 30-025-20957
Status: Plug and Abandoned
State O&G Lease 011026

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	Max ISIP	Max Rate	Max Down
6151-6177	7/13/81	Perforate w/ 2 JSPP @ 6151, 6160, 6165, 6171 and 6177'. Acetic Acid Perf 2-7/8\" Csg @ 1690' Cement 11-3/4\" x 2-7/8\" Csg Annulus w/ 975 sx, did not circ. TOC @ 100'	500					

1/26/95 - Subsequent Report of Plug and Abandonment:

1. Notify NMOC prior to moving on well.
2. This well has 2-7/8\" tub for production csg.
3. 1-26-95 TIH w/ 2-1/16\" tub to 6044' Spot 10sx cmt. plug f/6044 to cal. TOC 5638'.
Talked w/Jerry Sexton @ 9:30am 1-26-95 w/NMOC he OK to spot plug w/NO tag required.
Load cas. w/25# per bbl salt gel plug mud.
4. POH w/2-1/16\" tub to 4500' Spot 5 cmt. plug f/4500' CAL TOC top 4297.
5. POH w/2-1/16\" tub to 3000' Spot 15sx cmt. plug f/3000' CAL TOC 2391'.
6. POH w/2-1/16\" tub to 1750' Spot 10sx cmt. plug f/1750' CAL TOC 1344'.
7. POH w/2-1/16\" tub to 350' Spot 15sx cmt. plug f/350' to surface.
8. RD Pool WOrig & Pool plugging equip. Cut off wellhead; weld on cap & install dryhole marker.

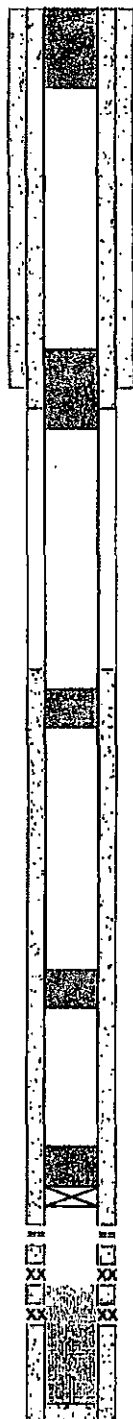
Formation Tops:

Anhydrite	1614'
Top Salt	1778'
Yates	
Seven Rivers	
Base Salt	2730'
Queen	3785'
Grayburg	
San Andres	4474'
Gorieta	6030'

PLUGGED WELLBORE SKETCH ConocoPhillips Company -- Permian Basin Business Unit

Date: November 3, 2004

RKB @ 3,972'
DF @ 3,970'
GL @ 3,960'



40 ex C cmt 413' to surface

12-1/4" Hole

8-5/8" 248 J55 @ 1,685'
Cmt'd w/ 640 ex; circ
25 ex C cmt 1,749 - 1,400', TAGGED
sqz'd 600 ex @ 1,700', circ. (08/31/80)
Top of Salt @ 1,725' (Est.)

TOC @ 2,800' (T.S.)

Base of Salt @ 2,900' (Est.)
25 ex C cmt 3,021 - 2,851'

25 ex C cmt 4,488 - 4,118'

7-7/8" Hole

25 ex C cmt 6,117 - 5,742'

Tagged CIBP @ 6,117' (set 08/18/04)

6,148' - 6,153' (Reper'd)

6,148' - 6,163'
Hydromite Plug 6,165'-6,168'
6,158' - 6,168'

Hydromite Plug 6,168'-6,188'
Float Collar @ 6,180'

4-1/2" OD @ 6,225' w/ 800 ex
9.5# J-S 5741.74'
10.5# J-S 470.81'

PBYD: 6,165'
TD: 6,225'

Subarea: Buckeye
Lease & Well No.: VGEU No. 32-01
Legal Description: 2323' FNL & 680' FEL, Section 29, T-17-S, R-35-E
County: Lea State: New Mexico
Field: Vacuum (Glorieta)
Date Spudded: September 5, 1984 IPP: 9/24/84
API Number: 30-025-20798 176 BO, 2 BW, GOR 490
Status: PLUGGED 10/20/04
Drilled as Santa Fe No. 198

Simulation History:

Interval	Date	Types	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
6148-6188	9/23/84	Perf Glorieta 6148'-6188' - 2 JSPF						
	9/24/84	15% Acid	500		1900	900	2.0	2-3/8"
	8/20/75	Test: Flow 176 BO, 2 BW, GOR 490						
	12/3/75	Test: Pump 8 BO, 100 BSW, GOR 732						
	12/4/75	Plug back 6198-6168 w/1000# hydromite						
	12/8/75	Plug back 6168-6147 w/1500# hydromite						
	12/8/75	Drilled and cleaned out hydromite 6147-6155						
	12/8/75	Perf 6148'-6183' - 2 JSPF						
6148-6153	12/9/75	20% Acid	500					
		3% HCl	500	Unable to break formation				
6148-6153	12/10/75	25% NE HCl	500					
		3% HCl	500		6500	0	3.1	
	12/16/75	Test: Pmp 3 BO, 145 BSW, GOR 312						
	6/2/80	Repair casing leak - perf 1700' & sqz w/600 ex						
		Test: 2 BO, 0 BW, Gas TSTM						
6148-6153	7/1/80	15% NE HCl						
	7/9/80	Test: Pump 18 BO, 10 BSW, GOR 710						
	8/28/04	Casing leak - review indicates casing repair not justified						
	8/31/04	Prepare Application for Abandonment of Well						

ACTUAL PLUGS

- 1) Tagged CIBP @ 6,117' (set 08/18/04)
- 2) 25 ex C cmt 6,117 - 5,742'
- 3) 25 ex C cmt 4,488 - 4,118'
- 4) 25 ex C cmt 3,021 - 2,851'
- 5) 25 ex C cmt 1,749 - 1,400', TAGGED
- 6) 40 ex C cmt 413' to surface

Formation Tops:

Yates 2,905'
Queen 3,766'
Grayburg 4,043'
San Andres 4,488'
Glorieta 6,018'

4-1/2" casing

9.5 #/ft 0.0912 ft3/ft
10.5 #/ft 0.0995 ft3/ft

WELLBORE SKETCH

Date: June 4, 2013

RKB @ 3986'
DF @ 3985'
GL @ 3975'



Spot 10 sx cmt 15' - Surf
15' Hole
Spot 30 sx cmt @ 50' - 15' (TAGGED)
Spot 100 sx cmt @ 350' - 154'

11-3/4" 24# @ 1620'
Cmt'd w/ 1,000 sx, circ
TOC @ Surface
Top Salt @ +/- 1730'
Spot 100 sx cmt @ 1706' - 1479 (TAGGED)

Cmt Retainer @ 2500' w/ 5 sx cmt on top
Base of Salt @ +/- 2625'
P&S @ 2900 - 2500' w/ 145 sx

Spot 5 sx cmt @ 4500' - 4297'

Spot 10 sx cmt @ 5932' - 5528'

6045 6074 6075 6083 6086
6111 6112 6114
6101 6103 6119
6142-6150 6155-6160

7-7/8" Hole
2-7/8" 6.5# @ 6250'
Cmt'd w/ 1200 sx
TOC @ Surf

PBTD: 6242'
TD: 6250'

Subarea : Buckeye
Lease & Well No. : Texaco NM "CG" State NCT-1 No. 2
Legal Description : 2310' FNL & 400' FEL, Sec. 30, T17S, R35E
County : Lea State : New Mexico
Field : Vacuum Glorieta
Date Spudded : 6/5/64 Rig Released: 6/21/64
API Number : 30-025-20958
Status : Plug and Abandoned
State O&G Lease E-7585

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	Max ISIP	Max Rate	Down
	6/23/64	Perforate 2-7/8" Csg w/ 2 JSPF @ 6101, 6103 and 6119						
6101-6119	6/23/64	Acetic Acid	500					
6101-6119	11/25/70	15% Acid	3,000					
	4/7/71	Perf 2-7/8" Csg w/ 2 JSPF @ 6142-6150 and 6155-6160						
6142-6160	4/7/71	28% NEA Acid	3,000	15 BS				
	6/6/85	Perf 2-7/8" Csg w/ 2 JSPF @ 6045, 74, 75, 83, 86, 6111, 12 & 6114						
6045-6114	6/6/85	15% NEFE	40					

2/2/95 - Subsequent Report of Plug and Abandonment:

1. Notify NMOCD of intent to plug and abandon talked w/Jerry Sexton 1-27-95
2. This well has 2-7/8" tub for production csg.
3. TIH w/2-1/16" work string to 5932' CICR csg. w/ 25# per bbl salt gel w/10# brine. 1-30-95
4. 1-30-95 Spot 10sx cmt. f/5932-9526.
5. 1-30-95 Spot 5 sx cmt f/4500-4297.
6. 1-31-95 Perf @ 4s per/ft. @ 2900' Set CICR @ 2500 sq. 145sx below CICR; Shut in @ 900 PSI Cap cmt. ret. w/5sx cmt.
7. 2-1-95 RUM cut 2-7/8" csg. @ 1706; Spot 100sx cmt. @ 1706' WOC tag @ 1479
8. 2-1-95 Spot 100sx cmt. @ 350 CA; TOC 154'.
9. 2-1-95 Spot 30sx cmt. @ 50 to surface WOC & tag @ 15'.
10. 2-1-95 Spot 10sx cmt. @ 15 to surface.
11. 2-2-95 RD pulling unit & rmt equip. Dig out cellar cut off well head cap well & install dry hole marker.

Formation Tops:

Anhydrite	1600'
Top Salt	1730'
Base Salt	2625'
Yates	2870'
Seven Rivers	
Queen	3770'
Grayburg	
San Andres	4440'
Glorieta	5995'

PLUGGED WELLBORE SKETCH **ConocoPhillips Company -- Permian Basin Business Unit**

Date: April 12, 2005

RKB @ 3,980'
 DF @
 GL @ 3,970'

Subarea: Buckeye
 Lease & Well No.: East Vacuum Grayburg San Andres Unit Tract 3238 #002
 Legal Description: 880' FNL & 680' FWL, Sec. 32, T-17-S, R-35-E
 County: Lea State: New Mexico
 Field: Vacuum Grayburg San Andres
 Spud Date: November 10, 1938 IPP:
 API Number: 30-025-02977
 Status: plugged April 11, 2005



17-1/2" hole
 13-3/8" 48/54# K-55 @ 275' w/ 400 sx, circ.
 Squeezed 150 sx C cmt under packer into existing perfs at 300'. WOC & tagged @ 34'.

12-1/4" hole

30 sx C cmt 884 - 884'

25 sx C cmt 1,350 - 1,200'

9-5/8" 38# @ 1,595', circulated w/ 615 sx

35 sx C cmt 1,711 - 1,604'

Set cmt retainer @ 1,711' and sqz'd 450 sx C cmt into existing perforations at 1,800'.

50 sx cmt squeezed 2,300 - 2,200'
 pumped 04/02/02

50 sx cmt squeezed 2,850 - 2,850'
 pumped 03/02/02

TOC @ 3,230' calc.

25 sx cmt 3,700 - 3,620' (balanced)
 pumped 03/02/02

8-3/4" hole

35 sx cmt 4,112 - 3,900' (balanced)
 CIBP @ 4,112' (set 03/02/02)

7" 24# K-55 @ 4,203' cmt'd w/ 146 sx, TOC @ 3,230' calc.

6-1/4" openhole to 4,651'

PBTD: 4,651'
 TD: 4,651'

FINAL PLUGGING

- 1) Tagged cmt @ 91'. Drilled/cleaned out cement & retainers to 1,877'. Ran CBL 1,700' to surface.
- 2) Set cmt retainer @ 1,711' and squeezed 450 sx C cmt into existing perforations at 1,800'.
- 3) Pumped 35 sx C cmt 1,711 - 1,604'
- 4) Pumped 25 sx C cmt 1,350 - 1,200'
- 5) Pumped 30 sx C cmt 884 - 884'
- 6) Squeezed 150 sx C cmt under packer into existing perfs at 300'. WOC & tagged @ 34'.
- 7) Squeezed 10 sx C cmt into 7 x 9-5/8" annulus, SICP 1,200#
- 8) SI 04/13/05 per NMOCD for 30-day observation prior to cutting off wellhead & installing dryhole marker.

Formation Tops:

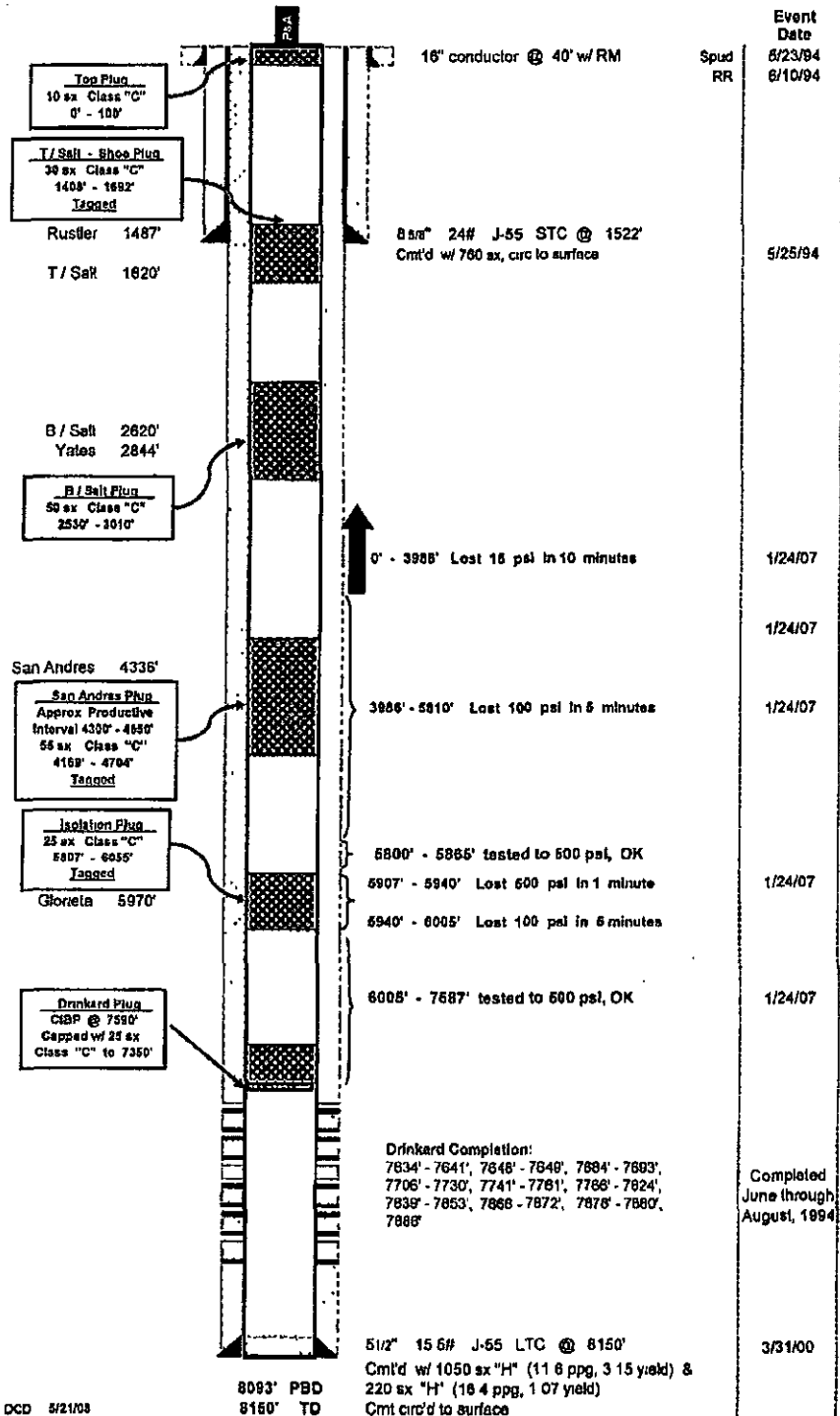
Chinle	220'
Rustler	1,520'
Yates	2,800'
Queen	3,670'
Grayburg	4,010'
San Andres	4,280'



State "B" 1576 #9
Vacuum (Drinkard)
API No. 30 - 025 - 32516
500' FSL & 419' FWL
Section 32 - T17S - R35E
Lea County, New Mexico

Final P&A
May 20, 2008

RKB 13'
GL 3951'



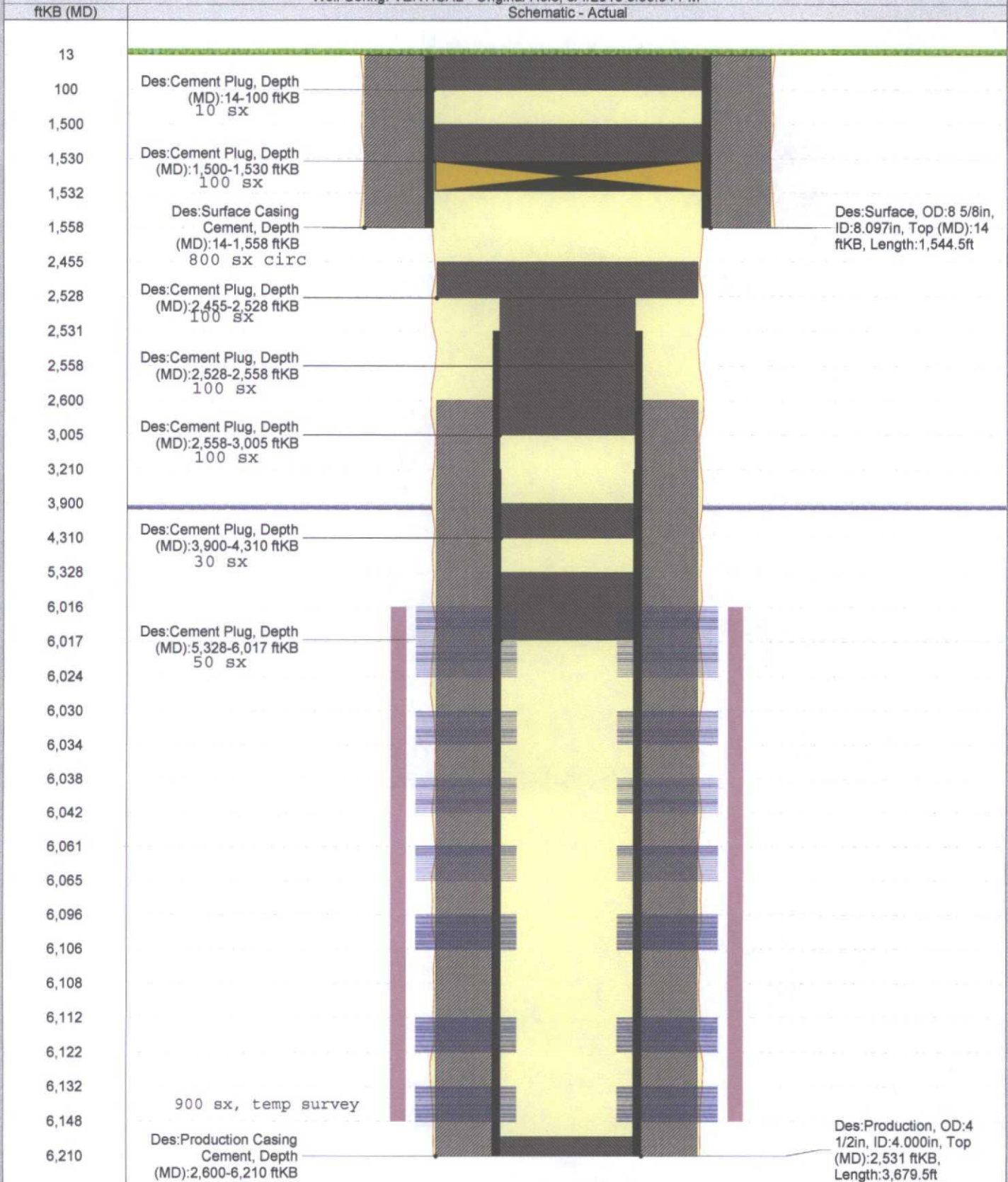


CURRENT SCHEMATIC

VACUUM GLORIETA EAST UNIT 002-05

District PERMIAN	Field Name VACUUM	API / UWI 300252071300	County LEA	State/Province NEW MEXICO		
Original Spud Date 4/16/1964	Surface Legal Location SEC. 32, T17S, R35E		E/W Dist (ft) 2,307.00	E/W Ref E	N/S Dist (ft) 1,980.00	N/S Ref S

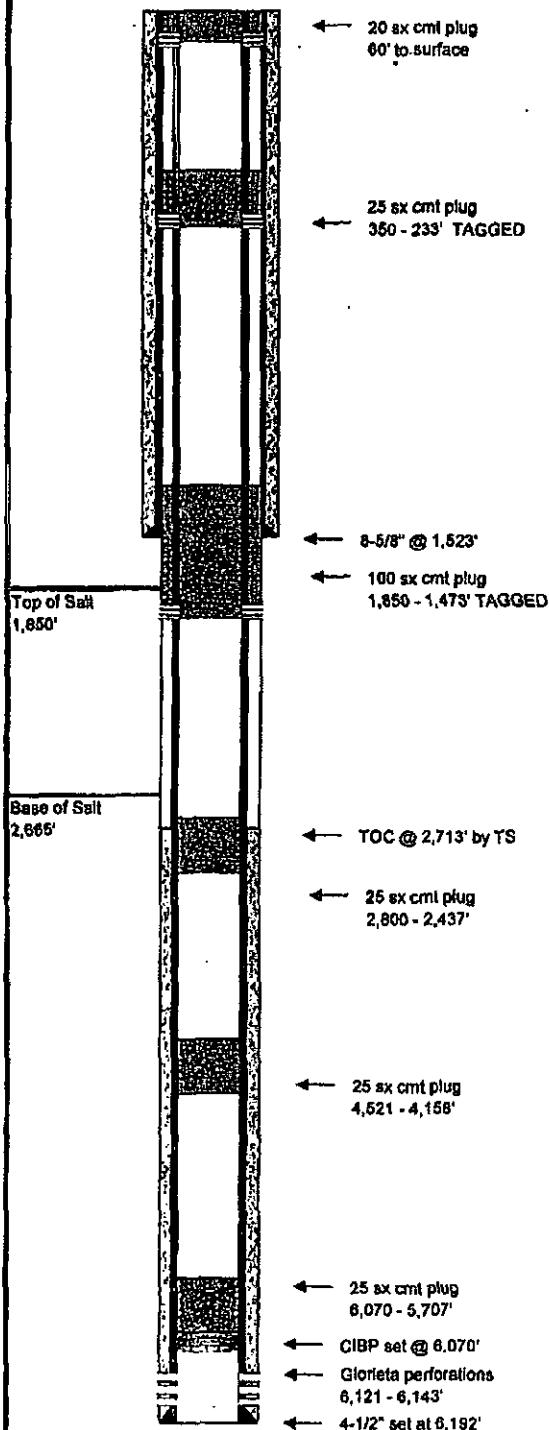
Well Config: VERTICAL - Original Hole, 6/4/2013 3:53:54 PM



ConocoPhillips Inc.

Plugged Wellbore

Vacuum Glorieta E. Unit #02-7



Field Name:	Vacuum Glorieta		
County:	Lea	Well Type:	SI producer
State:	New Mexico	Depth:	6,205
RRC District:		Drilling Commenced:	April 1, 1964
Section:	32	Drilling Completed:	April 14, 1964
Block:		Date Well Plugged:	December 8, 2003
Survey:	T-17-S; R-35-E	Longitude:	
Unit Letter O, 330 FSL & 2,308 FEL		Latitude:	
		Freshwater Depths:	
API #:	30-025-20711		
Lease or ID:	B-2956		

Casing					
Description	Size (inches)	Depth (feet)	TOC (feet)	Cement (sacks)	Hole Size (inches)
Surface:	8-5/8"	1,523	surface	850	12-1/4"
Production:	4-1/2"	6,192	2,713	900	7-7/8"

Existing Plugs					
Description	Top (feet)	Depth (feet)	Volume (sacks)	Volume (cu ft)	
1 CIBP set 07/25/01	6,070	6,070	—	CIBP	
2 class C cement, balanced	5,707	6,070	25	33	
3 class C cement, balanced	4,158	4,521	25	33	
4 class C cement, balanced	2,437	2,800	25	33	
5 class C cement, perf & sqz'd	1,473 (tag'd)	1,850	100	132	
6 class C cement, perf & sqz'd	233 (tag'd)	350	25	33	
7 class C cement, perf & sqz'd	surface	60	20	26	

Perforations			
Formation	Top (feet)	Depth (feet)	
Glorieta	6,121	6,143	

Formations		
Name	Top of Formation	
Top of Salt	1,850	
Base of Salt	2,665	

Comments: MIRU plugging crew 12/04/03. Tagged CIBP set 7/25/01 @ 6,070.

Prepared By: Jim Newman
Date: December 19, 2003

TRIPLE N
SERVICES INC.
MIDLAND, TX

WELLBORE SKETCH
ConocoPhillips Company -- Permian Basin Business Unit

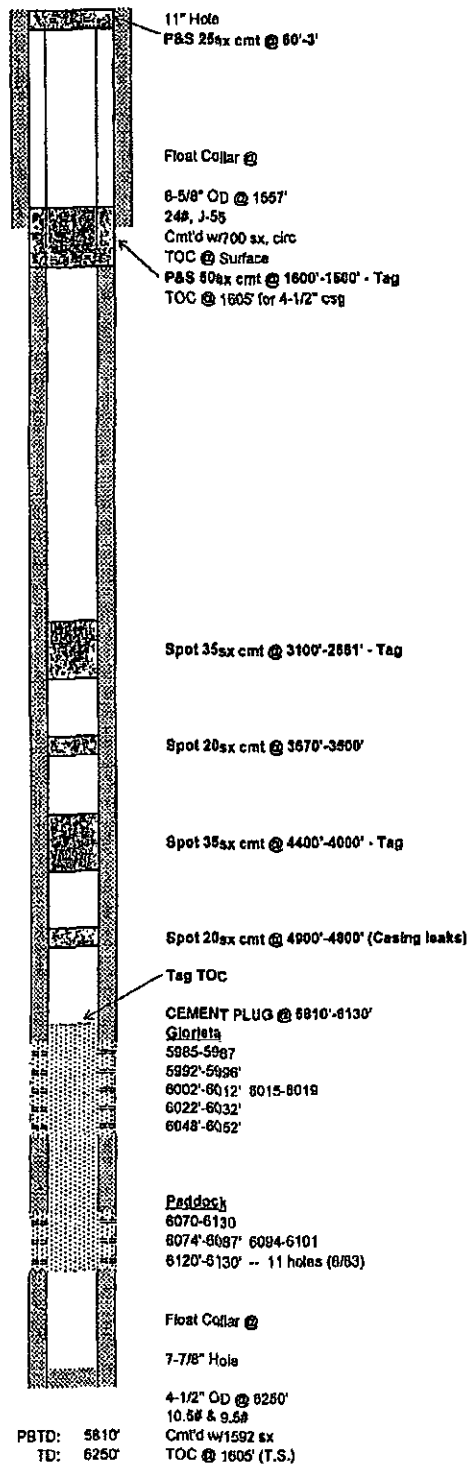
Date: Nov. 27, 2012

RKB @ _____
 DF @ _____
 GL @ 3964'

Subarea: Buckeye
 Lease & Well No.: VGEU No. 19-02
 Legal Description: 2310' FSL & 2310' FWL, Section 32, T-17-S, R-35-E
 County: Lea State: New Mexico
 Field: Vacuum Giorleta (Paddock)
 Data Spudded: July 28, 1984 Rig Released: _____
 API Number: 30-025-20845
 Status: _____

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
6074-6101	8/15/84	Perf Paddock 6074-6087 and 6094-6101 (40 shots)						
	8/18/84	Acid	500		2200	1200	2.1	
	8/18/84	test: 237 BO, GOR 568						
	9/16/70	Hot oil down casing						
	11/10/70	Run paraffin knife						
	5/27/78	Cellar dug out to top surface pipe. Cement to top of pipe. Piped Bradenhad to GL w/2" and stenciled valve SURF.						
6074-6130	8/16/83	Perf 6120-6130 - 11 holes						
	8/17/83	15% HCl	5,500	1250# RS	3800	Vac	6.3	
	8/19/83	Perf Giorleta 5992'-6052' -- 37 holes						
	8/22/83	15% HCl NEFE	4,300	50 BS	3000	Vac	3.7	
	8/25/83	15% NE & SA-2	4,500	74 BS	3500		5.0	
	12/30/83	Tag fill @ 6160'						
5992-6130	1/3/84	scale solvent and inhibitor						
	5/7/84	Run casing integrity test, 600# held OK. GIH w/2-3/8" tbg, 6N @ 6132', anchor @ 5870'. GIH w/pmp & rods						
	7/03	Shut-In						
	8/30/05	Tag CIBP @ 5892'; spot 20 sx cmt						
	9/1/05	Spot 25 sx cmt @ 2722'; tag @ 2374'						
	9/1/05	Perf @ 1607'						
	9/2/05	TIH OE to 1653'; spot 25 sx; tag @ 1300'						
	9/2/05	Spot 10 sx surface plug 30'-surf						
	6/17/10	Drill out cmt 5839'; drill out CIBP @ 5839' and chase to 6150'						
	6/24/10	Spot 75 sx cmt across perfs @ 6130-5992'						
	6/28/10	Tag @ 6120'; spot 75 sx across perfs 5992-6120						
	7/1/10	Tag cmt @ 5395'; drill out to 6130'						
	7/2/10	Spot 50 sx C/C 6150-5345'; tag @ 5422'						
	7/13/10	Tag @ 5422'; drill out to 6150'						
	7/15/10	Perf @ 5985-5987 & 6070-6130						
	10/18/10	Isolate casing leak @ 4840-4872						
	10/21/10	Pmp 70 sx Class C 6130-5810' (Tagged)						



Top of Salt @ 1600'

Base of Salt @ 2700'

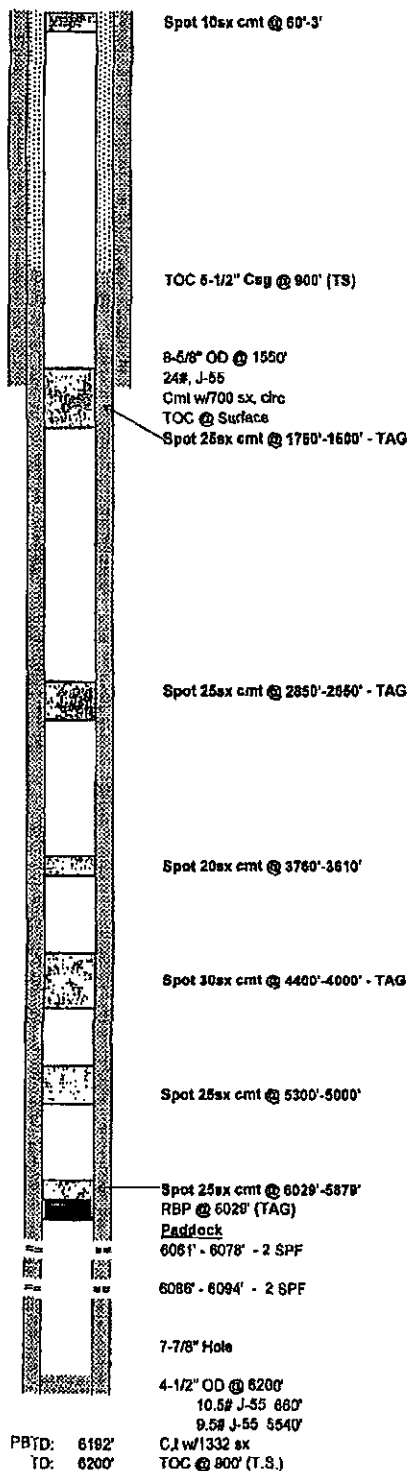
Formation Tops:

Yates	2781'
Seven Rivers	
Queen	3670'
Grayburg	5945'
San Andres	
Paddock	6067'

WELLBORE SKETCH
ConocoPhillips Company -- Permian Basin Business Unit

Date: November 27, 2012

RKB @ _____
DF @ _____
GL @ 3970'



Subarea: Buckeye
Lease & Well No.: VGEU No. 19-03
Legal Description: 680' FSL & 500' FWL, Section 32, T-17-S, R-35-E
County: Lee State: New Mexico
Field: Vacuum (Glorieta)
Date Spudded: August 28, 1964 JPP:
API Number: 30-025-20847
Status: Temporarily Abandoned
Drilled as State "B" 1576 No. 8

Stimulation History:

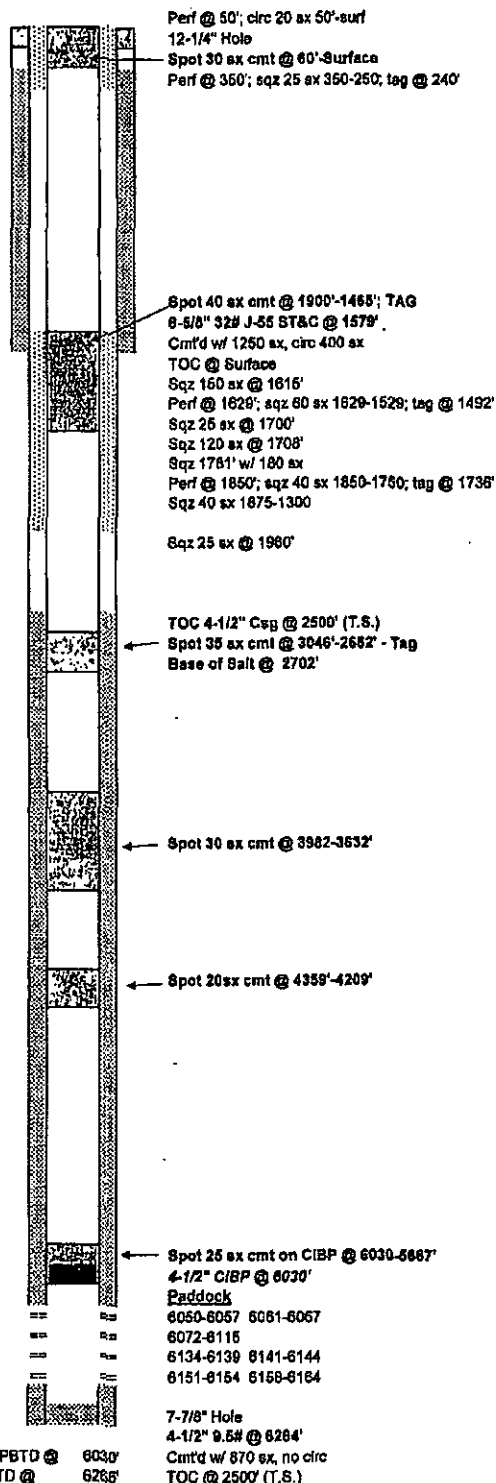
Interval	Date	Type	Gels	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
6069-6094	9/17/84	Perf Paddock 6069-6078 & 6086-6094						
	9/17/84	15% CMA	500		3400	2000	2.5	2-3/8"
	9/17/84	Potential 218 BO, GOR 1120						
6069-6094	2/3/86	15% NEFE CMA	1,000		1800	1000	2.1	2-3/8"
	5/27/78	Cellar dug out to top of 8-5/8" cmt to top of pipe. Piped broadenhead to ground level w/2" and stenciled valve SURF. Work done per NMOC letter dated 4/28/78.						
	2/9/83	COP						
	12/1/93	Change in lease name and number effective						
	5/11/84	Press test casing to 500#, OK.						
	8/04	Encounter casing leak, temporarily abandon well						
	8/11/04	Further technical review has determined that wellbore has no additional potential.						
	8/23/04	Prepare Application for Abandonment of Well						
	10/21/04	Set 4-1/2" CIBP @ 6011'; pmp 25 sx cmt; TOC @ 5644'						
	10/22/04	Pmp 25 sx C cmt 2898-2827						
		Pmp 30 sx C cmt 1589-1144; tag cmt @ 1180'						
		Perf @ 400'; circ 100 sx C cmt to surface						
	6/15/10	Drill out cement to 3989'						
	6/17/10	Spot 10 sx cmt 439'-295'						
	6/21/10	Drill out cement to 440'						
	6/23/10	Spot 10 sx cmt from 439' to 295'; tag @ 330'						
	7/1/10	Drill out cement and CIBP's to 5971'; TIH to 6147'						
	7/7/10	Test casing; leak from 5030-5242						
	7/7/10	RBP @ 6028'; w/2 sx sand on top						
	7/8/10	Pmp 25 sx C cmt from 501'-143'						
	7/12/10	Drill out cement						

Formation Tops:
Yates 2800'
Queen 3710'
Glorieta 5987'
Paddock 6084'

WELLBORE SKETCH
ConocoPhillips Company -- Lower 48 - Mid-Continent BU / Permian Operations

Date: July 31, 2012

RKB @ 3978'
 DF @ 3978'
 GL @ 3987'



Subarea: Buckeye
 Lease & Well No.: Vacuum Gloria East Unit, Tract 25, Well 003
 Legal Description: 1880' FNL & 660' FWL, Sec. 32, T17S, R35E, UL "E"
 County: Lea State: New Mexico
 Field: Vacuum (Gloria)
 Date Spudded: 8/7/84 Rig Released: 8/24/84
 API Number: 30-025-20885
 Status:
 Drilled as Standard Oil State 3-32-6 Lease or ID: B-1838-1

Stimulation History:

Interval	Date	Type	Gala	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
	8/28/84	Perf 6072-6115 w/ 1 TJPF						
6072-6115	8/27/84	Acid	1,000		2850	2200	3.3	
	5/12/85	Perf w/ 1 TJPF @ 6060-6057 & 6081-6087						
6050-6115	5/13/85	15% Retarded Acid	3,000	60 BS	3250	2575	3.7	
	8/2/87	Perf w/ 2 CJPF @ 6134-6139, 6141-6144, 6151-6154 & 6158-6164						
6134-6164	8/3/87	15% DS-30 Acid	1,000		1900	0	3.4	
6050-6164	3/22/73	20% Acid	8,000					
6050-6164	2/10/81	20% NE HCl	3,000					
	1/29/01	Set CIBP @ 6030'						
	12/3/0	Tag CIBP @ 6030'; pmp 25 ex Cl C cmt 6030-6687'						
		Pmp 25 ex Cl C cmt 3932-3569						
		Pmp 25 ex Cl C cmt 2731-2368						
		Perf @ 1850' & Sqz 40 ex Cl C cmt 1850-1750; tag cmt @ 1736'						
	12/4/03	Perf @ 1629'; sqz 60 ex Cl C cmt 1629-1529; tag cmt @ 1492'						
		Perf @ 350'; sqz 25 ex Cl C cmt 350-250; tag cmt @ 240'						
		Perf @ 50'; circ 20 ex Cl C cmt 50' to surface						
	6/8/10	Drill out cement plugs w/ 3 7/8" bit to 6030'; top of CIBP						
		Run csg inspection log; holes in casing @ 1846-1847; 1615; 1313; 356 and 60.5'						
	7/13/10	Sqz 40 ex Class C Neat cmt 1875-1300'; tag cmt @ 1543'						
	7/15/10	Drill out cmt to 1875'						
	7/19/10	Set Pkr @ 1781'; sqz 50 ex Cl C Neat						
	7/21/10	Set pkr @ 1781'; sqz 60 ex Cl C Neat						
	7/23/10	Set pkr @ 1781'; sqz 70 ex Cl C Neat						
	7/27/10	Drill cmt from 698-1908'						
	7/28/10	Set 4-1/2" CIBP @ 1600'						
	10/22/10	Drill out CIBP						
	10/28/10	Set CIBP @ 1730';						
	10/27/10	Sqz holes @ 1615'; sqz 150 ex Cl C						
	10/28/10	Drill out cement and CIBP						
	11/1/10	Sqz 25 ex Cl C Neat @ 1950'						
	11/4/10	Sqz 25 ex @ 1700'						
	11/8/10	Set pkr @ 1708'; sqz 120 ex Cl C Neat						
	11/17/10	Mill over fish from 1458-1641'						
	12/2/10	Recovered packer; drill cmt from 1657-1988'						

Formation Tops:

Rustler	1515'	Penrose	
Salado / Top Salt	1850'	Grayburg	3932'
Tensill / Base Salt	2702'	San Andres	4309'
Yates	2828'	Glorieta	5942'
Seven Rivers	2996'	Paddock	6011'
Queen	3882'		

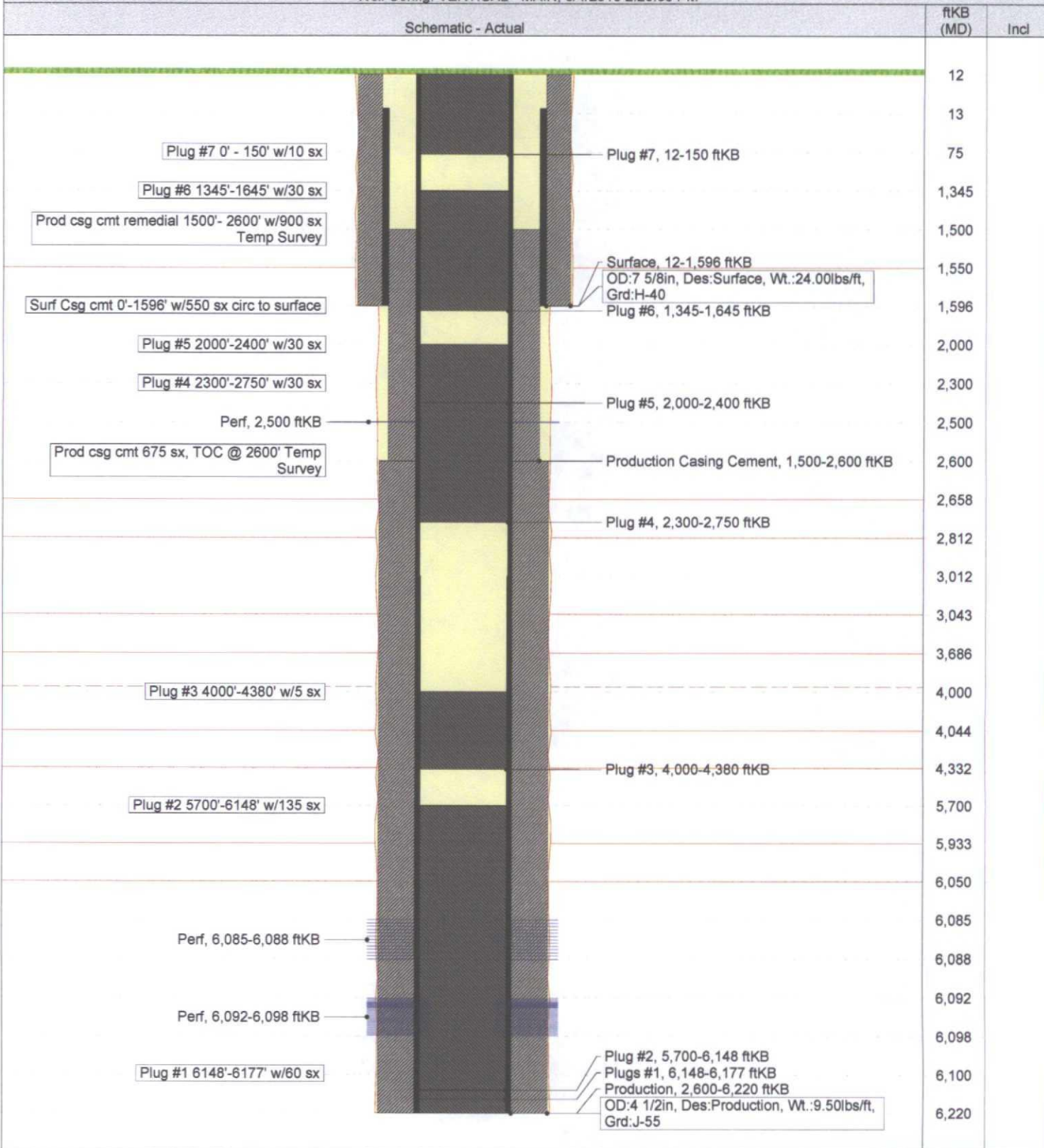


Schematic - Current

VACUUM GLORIETA EAST UNIT 001-08

District PERMIAN	Field Name VACUUM	API / UWI 300252072200	County LEA	State/Province NEW MEXICO	
Original Spud Date 5/29/1964	Surface Legal Location Sec. 28, T-17-S, R-35-E	East/West Distance (ft) 330.00	East/West Reference W	North/South Distance (ft) 330.00	North/South Reference S

Well Config: VERTICAL - MAIN, 6/4/2013 2:20:36 PM



WELLBORE SKETCH
 ConocoPhillips Company - Lower 48 - Mid-Continent BU / Permian Operations

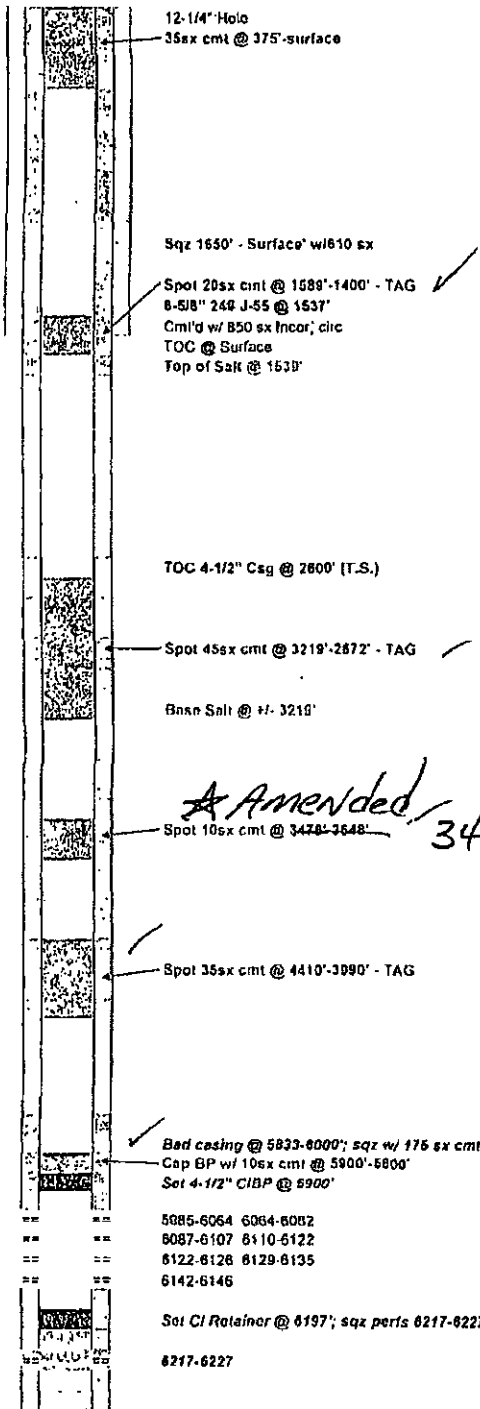
Date: Feb. 11, 2011

RKB @ 3984'
 DF @ 3983'
 GL @ 3953'

Subarea: Buckeye
 Lease & Well No.: Vacuum Glorieta East Unit, Tract 2, Well No. 8
 Legal Description: 1830' FSL & 510' FEL, Sec. 32, T17S, R35E, UL 1"
 County: Lea State: New Mexico
 Field: Vacuum Glorieta
 Date Spudded: 3/5/84 Rig Released: 3/31/84
 API Number: 30-025-20709
 Status:
 Drilled as Humble New Mexico State K No. 18 State Lease No. A-1320

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press.	ISIP	Max Rate	Max Down
	4/3/84	Perforate 6217-6227 w/ 1 SPF						
6217-6227	4/4/84	15% Regular NE Acid	2,000		2000			
	4/6/84	Set CI Retainer @ 6197'; sqz ports 6217-6227 w/ 100 sx incor Neat cmt						
	4/7/84	Perforate w/ 1 SPF @ 6110-6122						
6110-6122	4/8/84	15% Regular NE Acid	2,000		2000			
6110-6122	4/9/84	15% Regular NE Acid	5,000		3800			
6110-6122	12/14/88	15% NE Acid	3,000		500		Vac	4.3
	2/14/90	Perforate w/ 1 SPF @ 6064-6082						
	10/20/82	Set BP @ 3000'; perf holes @ 1650'; set cmt retainer @ 1580'; sqz 500 sx CI C cmt to surf; pmpld 110 sx into backside of pipe; drill out retainer & cmt; 1st sqz 1000 psi, OK						
6064-6122	10/25/82	15% HCl	2,500	BS	550		Vac	4.5
6064-6122	11/24/86	15% HCl	2,500					
	12/14/88	Bad casing @ 6033-6000'; sqz w/ 175 sx cmt						
	12/20/88	Perforate w/ 1 SPF @ 5985-6064, 6087-6107, 6122-6128, 6129-6135, 6142-6145. Re-perforate w/ 2 SPF @ 6064-6082 & 6110-6122						
5985-6122	12/20/88	15% HCl	15,000	30000 RS	#	300		4.4
	7/30/04	Set 4-1/2" CIBP @ 6900'; circ pkr fluid, TA'd						
	6/21/10	Approval of Temporary Abandonment Expires 8/18/2011 Unable to get good pressure tests; set down @ 2475'						



PBTD: 5900'
 TD: 6463'

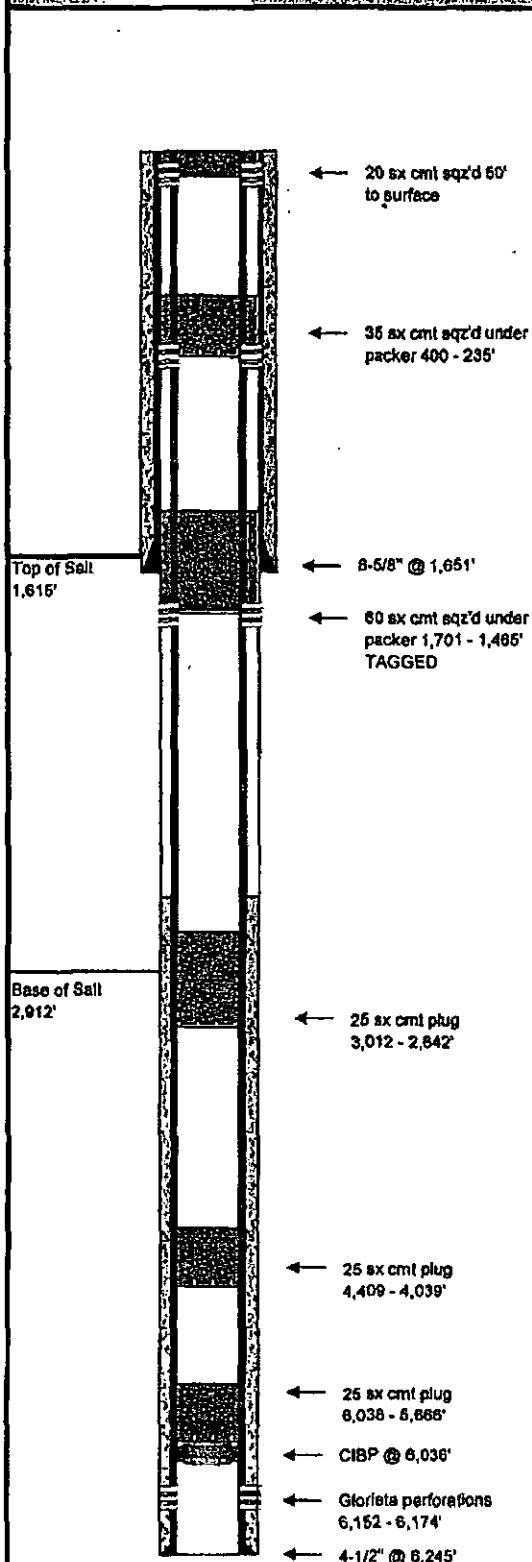
Formation Tops:

Rustler	1518'
Tensil	2722'
Yales	2812'
Seven Rivers	3048'
Queen	3598'
Grayburg	4040'
San Andres	4360'
Glorieta	5983'
Paddock	6108'
Blaine	6408'

RECEIVED

MAR 14 2011

HOBBSDOCD



Prepared By: Jim Newman
Date: January 12, 2004

Field Name:	Vacuum Glorieta		
County:	Lea	Well Type:	Oil
State:	New Mexico	Depth:	6,245
RRC District:		Drilling Commenced:	November 7, 1964
Section:	29	Drilling Completed:	November 20, 1964
Block:		Date Well Plugged:	January 8, 2004
Survey:	T-17-S; R-35-E	Longitude:	
Unit Letter G		Latitude:	
2,323 FNL & 2,213 FEL		Freshwater Depths:	
API #:	30-025-20802		
Lease or ID:	B-1501		

Casing					
Description	Size (inches)	Depth (feet)	TOC (feet)	Cement (sacks)	Hole Size (inches)
Surface:	8-5/8"	1,651	Surface	590	12-1/4"
Production:	4-1/2"	6,245	2,500 by TS	800	7-7/8"

Existing Plugs				
Description	Top (feet)	Depth (feet)	Volume (sacks)	Volume (cu ft)
1 CIBP, set 12/09/03	6,036	6,038		
2 Cement	5,666	6,036	25	33
3 Cement	4,039	4,409	25	33
4 Cement	2,642	3,012	25	33
5 Cement, perf & sqz, packer	1,485 (tag'd)	1,701	60	79
6 Cement, perf & sqz, packer	235 (tag'd)	400	35	46
7 Cement, perf & sqz	surface	50	20	26

Perforations			
Formation	Top (feet)	Depth (feet)	
Glorieta	6,152	6,174	

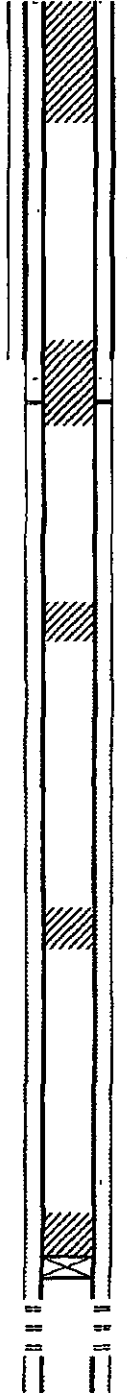
Formations		
Name	Top of Formation	
Top of Salt	1,615	
Base of Salt	2,912	

Comments:
CIBP @ 6,036' set 12/09/93

PLUGGED WELLBORE SKETCH ConocoPhillips Company - Permian Basin Business Unit

Date December 15, 2008

RKB @ 3947'
 DF @ 3948'
 GL @ 3939'



Subarea Buckeye
 Lease & Well No Vacuum Gioneta East Unit, Tract 26 Well No. 1
 Legal Description 990' FNL & 330' FWL, Sec 27, T-17-S, R-35-E, UL "D"
 County Lea State New Mexico
 Field Vacuum Gioneta
 Date Spudded 6/25/64 Rig Released 7/17/64
 API Number 30-026-20883
 Status Plugged 12/11/08

Circulated 40 ex C cmt 400' to surface

Drilled as State 6-27 No. 8

State O&G Les No. B-1838-1

Stimulation History

Interval	Date	Type	Gals	Lbs. Sand	Max Press	Max ISIP	Max Rate	Max Down
12 1/4" hole	7/21/64	Perforate 8132'-6172', 1 JSPF (select fire)						
	7/23/64	Acid	1,000		2700	2200		
		IPF 82 BO, 0 BW						
8-5/8" 32# & 24# @ 1627'	12/17/70	15% NE HCl	2,000					
Cmt'd w/ 1,250 ex lead cmt, TOC 280' by T S	8/28/81	Perforate 4 squeeze holes @ 1700'; squeeze w/700 sacks						
Cmt'd to surface w/ 200 ex cmt via 1" tubing		circulate 250 sacks cement to surface.						
Casing Leak @ 1700' - Sque'd w/700 ex	1/25/94	Run MIT, hold OK						
Top Salt @ - 1776'	6/8/01	Set 4-1/2" CIBP @ 8088'						
25 ex C cmt 1,825 - 1,280' WOC TAGGED		Temporarily Abandon						
Perforated csg @ 1,775'; unable to establish injection rate								

TOC 4-1/2" Csg @ 2780' (T.S.)

Base of Salt @ -2,800'

25 ex C cmt 2,900 - 2,539'

30	39 8	-434 016
25	33 0	-381 68
25	6088	<u>5724.32</u>
25	4342	<u>3980.32</u>
25	2800	<u>2538.32</u>

25 ex C cmt 4,342 - 3,981'

25 ex C cmt 6,088 - 5,725'

Circulated plugging mud

Tagged PBTD @ 6,086'

4-1/2" CIBP @ 8088'

Glorieta

8132' - 8144'

8148' - 8156'

8188' - 8172'

7-7/8" Hole

4-1/2" 9 5# J-55 @ 6237'

Cmt'd w/870 ex cement

TOC @ 2780' (T.S.)

PBTD 6086'
 TD 6240'

Formation Tops:

Rustler	1830'
Top Salt	1776'
Yates	2802'
Seven Rivers	3065'
Base Salt	
Queen	3728'
Grayburg	
San Andres	4342'
Glorieta	6001'
Paddock	6132'



Plugs set 12/04/08 thru 12/11/08

- 1) Tagged PBTD @ 6,088, circulated plugging mud
- 2) 25 ex C cmt 6,088 - 5,725'
- 3) 25 ex C cmt 4,342 - 3,981'
- 4) 25 ex C cmt 2,900 - 2,539'
- 5) 25 ex C cmt 1,825 - 1,280' WOC TAGGED
- 6) Circulated 40 ex C cmt 400' to surface

Capacities

4 1/2" 9 50# csg	10 960 ft/ft	0 0912 ft/ft
8 1/2" 24# csg	2 767 ft/ft	0 3575 ft/ft
7 7/8" openhole	2 957 ft/ft	0 3382 ft/ft
12 1/4" openhole	1 222 ft/ft	0 8185 ft/ft

District PERMIAN	Field Name VACUUM	API / UWI 300250293800	County LEA	State/Province NEW MEXICO
Original Spud Date 7/28/1960	Surface Legal Location Sec. 29, T-17S, R-35E	E/W Dist (ft) 330.00	E/W Ref W	N/S Dist (ft) 2,310.00
			N/S Ref N	

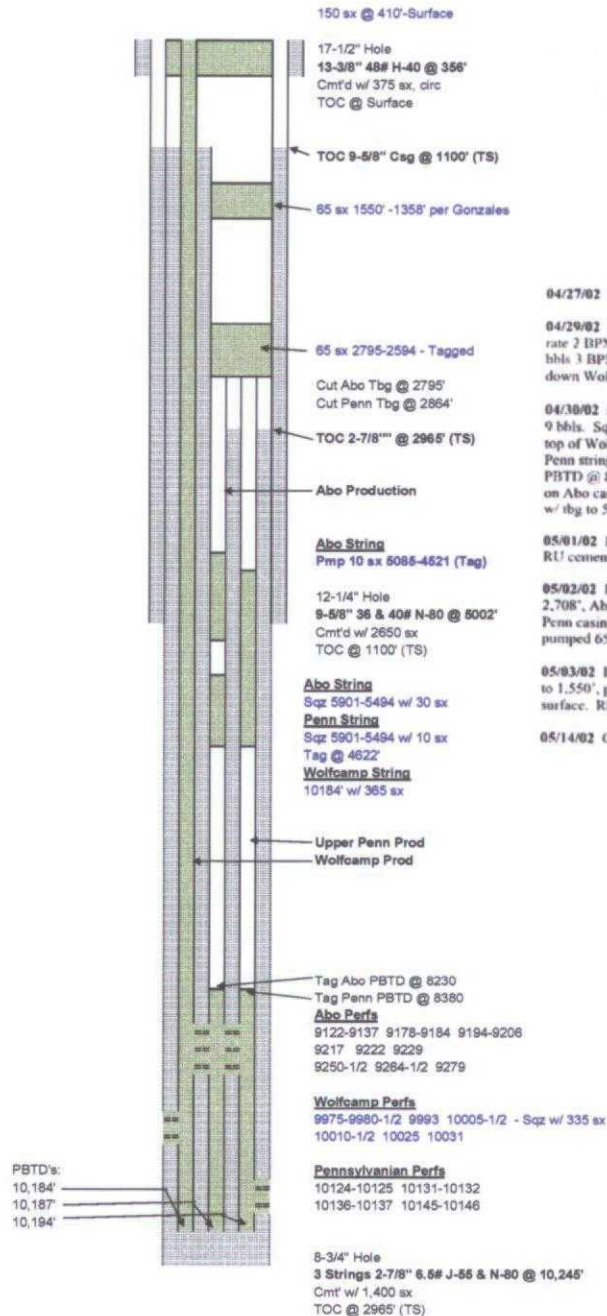
Well Config: VERTICAL - MAIN HOLE, 6/4/2013 4:34:01 PM

Schematic - Actual		ftKB (MD)	Incl
	250 sx circ to surf		
	Surface Casing Cement, 11-307 ftKB	9	
	OD: 8 5/8in, Des: Surface, Wt.: 32.00lbs/ft, Grd: H-40	11	
	Cement Plug, 11-360 ftKB 115 sx	307	
	Cement Squeeze, 11-360 ftKB		
Perf, 10/7/2010, 360 ftKB	Cement Plug, 1,530-1,750 ftKB 40 sx	360	
Perf, 10/7/2010, 1,750 ftKB	Cement Squeeze, 1,530-1,750 ftKB	1,750	
Perf, 10/6/2010, 2,850 ftKB	Cement Plug, 2,600-2,850 ftKB 40 sx	2,850	
	Cement Squeeze, 2,600-2,850 ftKB	2,889	
		3,726	
		3,747	
	Cement Plug, 3,747-4,000 ftKB 25 sx	4,000	
	4in, 5-1/2" CIBP, 4,000 ftKB	4,003	
		4,130	
	Cement plug, 4,193-4,337 ftKB 30 sx	4,337	
		4,343	
		4,348	
Perf, 9/1/1960, 4,408-4,412 ftKB		4,408	
		4,412	
Perf, 9/1/1960, 4,436-4,440 ftKB		4,436	
		4,440	
Perf, 9/1/1960, 4,455-4,459 ftKB		4,455	
		4,459	
		4,465	
Perf, 9/1/1960, 4,484 ftKB		4,484	
Perf, 9/1/1960, 4,496 ftKB		4,496	
Perf, 9/1/1960, 4,540 ftKB		4,540	
Perf, 9/1/1960, 4,570 ftKB		4,570	
	Cement Squeeze, 4,408-4,570 ftKB	4,540	
	Cement Plug, 4,193-4,656 ftKB 30 sx	4,570	
	Production Casing Cement, 3,526-4,726 ftKB	4,726	
	OD: 5 1/2in, Des: Production, Wt.: 15.50lbs/ft, Grd: J-55		
	200 sx, TOC calc	6,001	
	Cement Plug, 5,745-6,015 ftKB 10 sx	6,015	
	2.990in, 3 1/2" CIBP, 6,015 ftKB	6,018	
		6,107	
Perf, 2/6/1964, 6,111-6,119 ftKB		6,111	
		6,119	
Perf, 2/6/1994, 6,125-6,133 ftKB		6,125	
		6,133	
Perf, 2/6/1994, 6,141-6,146 ftKB		6,141	
		6,146	
		6,385	
		6,385	
	Liner Cement, 4,337-6,387 ftKB 170 sx	6,386	
	OD: 5in, Des: Liner, Wt.: 8.80lbs/ft, Grd: N-80	6,387	

WELLBORE SKETCH
Created using publicly available data from the NM OCD website.

RKB @ 3555'
DF @ 3554'
GL @ 3544'

Date: Feb. 1, 2013



Marathon
Lease & Well No.: Warn State A/C 1 # 3
Legal Description: 2080' FNL & 1908 FWL, Sec. 31, T-17-S, R35-E, UL "F"
County: Las State: New Mexico
Field: N. Vac. Abo/Vac. Upper Penn/Wolfcamp
Date Spudded: 5/4/84 Rig Released:
API Number: 30-025-20748
Status:

State O&G Lse

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	Max ISIP	Max Rate	Max Down
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04/27/82 MI Triple N rig #24 and plugging equipment.

04/29/82 Notified OCD, Paul Kautz. RU cementer on Wolfcamp and pumped 70 bbls, 1/2 BPM @ 1,400 psi. Final rate 2 BPM @ 800 psi, SI on vacuum. No communication to Abo or Penn strings. RU on Abo string, pumped 60 bbls 3 BPM @ 250 psi, on vacuum. No communication to Wolfcamp or Penn. or 9-5/8". Squeezed 330 sx C cmt down Wolfcamp string, displacing w/ 3 bbls, on vacuum.

04/30/82 RU cementer on Wolfcamp, and pumped 2 bbls, caught pressure, then 1 BPM @ 550 psi, pumped total of 9 bbls. Squeezed 35 sx C cmt down Wolfcamp string, locked up at 1,500 psi. PU 1 jt 1.90" tubing and washed out top of Wolfcamp string. RU on Abo string, loaded hole w/ 40 bbls and pressured up to 1,200 psi, no rate. RU on Penn string, loaded hole w/ 36 bbls and pressured up to 1,200 psi, no rate. RIH w/ wireline on Abo string, tagged PBTD @ 8,230'. RIH w/ wireline on Penn string, tagged PBTD @ 8,380'. Notified OCD, Paul Kautz. NU BOP on Abo casing and RIH w/ 1.90" tubing to 5,901'. RU cementer and pumped 10 sx C cmt 5,901' - 5,494'. POOH w/ tbg to 5,085' and pumped 10 sx C cmt, POOH w/ tbg and SI well, SDFN.

05/01/82 RIH w/ wireline on Abo string, tagged cmt @ 4,521'. RU on Penn casing. RIH w/ 1.90" tubing to 5,901'. RU cementer and pumped 10 sx C cmt 5,901' - 5,494'. POOH w/ tbg and WOC.

05/02/82 E.L. Gonzales w/ OCD on location. Tagged cmt on Penn string @ 4,622'. Stretched casings, Penn free @ 2,708', Abo free @ 3,054'. Cut Penn casing @ 2,864', casing free. Cut Abo casing @ 2,804', not free. POOH w/ Penn casing (Penn). Worked Abo casing, not free. Cut Abo casing @ 2,795', POOH. Circulated hole w/ mud and pumped 65 sx C cmt @ 2,795'.

05/03/82 E.L. Gonzales w/ OCD on location. Tagged cmt @ 2,594'. Finished circulating hole w/ mud and POOH to 1,550', pumped 65 sx C cmt 1,550' - 1,358' per E.L. Gonzales, no need to tag. Pumped 150 sx C cmt 410' to surface. RDMO.

05/14/82 Cut off wellhead and installed dry hole marker, cut off anchors, back-filled cellar and pit.

Formation Tops:

Top Salt	2500'		
Yates	2793'	Paddock	6018'
Seven Rivers	3496'	Blinbry	6583'
Queen	3702'	Abo	7977'
Grayburg	4049'	Wolfcamp	9371'
San Andres	4340'	Lwr Wolfcamp	9965'
Glorieta	5899'	Penn	10,089'

WELLSBORE SKETCH
Created using publicly available data from the NMOCB website

RKB @ 3981'
DF @ 3990'
GL @ 3979'

Lease & Well No. :	Central Vacuum Unit #080
Legal Description :	1310' FNL & 2635' FWL, Sec. 31, T17S, R35E, Unit Letter C
County :	Lea State : New Mexico
Field :	Vacuum (Grayburg-San Andres)
Date Spudded :	11/30/77
API Number :	30-026-25707
Status :	P&A'd 2/25/2005

12-1/4" Hole

8-5/8" 24#, K-55 @ 366'
Cm'd w/400 ex, clrc to surface
TOC @ Surface

Csg Leak 511' - 1200' - Spz'd

Pmp 108 ex 1314'-surface

Pmp 40 ex 2285'-2800'

Pmp 20 ex 3445'-3745'

Top of plug @ 4013'

Top of fish @ 4048' 2-3/8" Duo-Line Tbg, pt 4046-4648 (500 ft)

Perfs
4398' - 4712'

7-7/8" Hole
4-1/2" 10.6# K-55 @ 4800'
Cm'd w/2270 ex clrc to surface

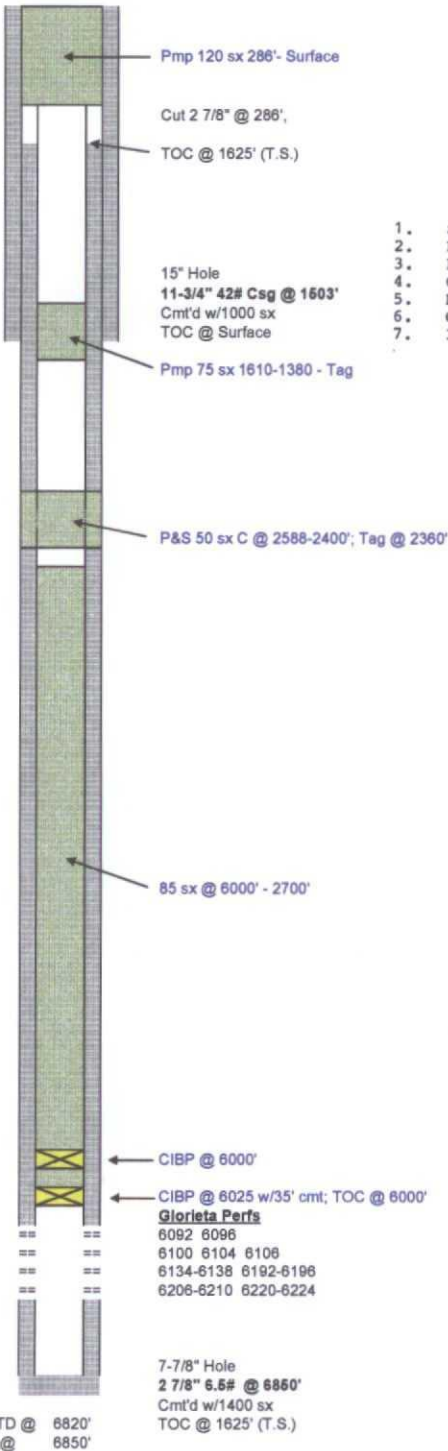
PBTD: 4740'
TD: 4800'

Formation Tops:
Grayburg 4170'
San Andres 4356'

WELLBORE SKETCH
Created using publicly available data from the NM OCD website.

RKB @
DF @ 3984.0'
GL @

Feb. 1, 2013



1. Set 2 7/8" CIBP @ 6000'
2. Fill 2 7/8" csg w/cmt 6000'-2700' w/85 sx
3. Perf 6 holes @ 2588', squeeze w/50 sx cmt 2588'-2400' Tag @ 2360'
4. Cut @ 1610' unable to pull squeeze w/75 sx Tag @ 1380'
5. Displace hole w/salt gel mud 9.5# brine w/25# of gel per BBL
6. Cut 2 7/8" csg @ 286' circ cmt 286' to surf w/ 120 sx cmt
7. Install dry hole marker - 8/14/00

Texaco Exploration & Production Inc	
Lease & Well No.:	Vacuum Glorieta West Unit 119
Legal Description:	330' FNL & 660' FEL, Sec. 6, T-18-S, R-35-E
County:	Lea State: New Mexico
Field:	Vacuum (Glorieta)
Date Spudded:	9/11/84 Rig Released: 9/29/84
API Number:	30-025-21108
Status:	P&A'd 8/14/2000