DATE IN 08/16/13	SUSPENSE	ENGINEER TDD	LOGGED IN 08/19/13	TYPE IPI 453	APP NO. pPRG1323160724

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

Chevron
Skelly Unit No. 950
30-015-32437

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR

[D] Other: Specify SWD - 1287

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

RECEIVED
AUG 16 2013
NMOCD

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Carolyn Haynie	Carolyn Haynie	NM Petro Eng Tech Assistant	8-14-13
Print or Type Name	Signature	Title	Date

chay@chevron.com
e-mail Address

Chevron

Paul Brown
Petroleum Engineering

MidContinent Business Unit
Chevron North America
Exploration and Production
Company
15 Smith Road
Midland, TX 79705
Tel 432-687-7351
Fax 432-687-7871
PaulBrown@chevron.com

August 14, 2013

New Mexico Oil Conservation Division
Attn: Richard Ezeanyim
1200 South St. Francis Drive
Santa Fe, NM 87505

Injection Pressure Increase Request
Disposal Permit: Administrative Order SWD-1287
Maximum Wellhead Injection Pressure: 1,500 psi
Skelly Unit No. 950
API No. 30-015-32437
UL C, Sec 28-17S-31E, 973' FNL & 2226' FWL
Eddy County, NM

Dear Mr. Ezeanyim:

Chevron respectfully requests that the maximum allowable injection pressure for Skelly Unit 950 be increased to 1,750 psi.

Skelly Unit 950 has been a salt water disposal well since 2011 and has a gross injection interval of 7494' to 9780'. No initial step rate test was performed and the subject well was permitted to inject at a maximum pressure of 1500 psi (0.2 psi/ft gradient).

On July 23, 2013 a step rate test was performed on the subject well. The test identified the parting pressure of 1,750 psi at the surface. The step rate test is attached for your review.

Chevron is requesting that the maximum pressure be increased from its present 1,500 psi to 1,750 psi. Doing so will allow Chevron to utilize more of the full pressure capability of its injection facility.

Please contact me at 432-687-7351 if you have further questions.

Yours very truly,

Paul T. Brown

Paul T. Brown
Petroleum Engineer
New Mexico Area
Midland, TX

[Soft "AC 1675]
1750
-50 2 Friction Pres
1700 psi.
1700 psi / 7494 ft = 0.23

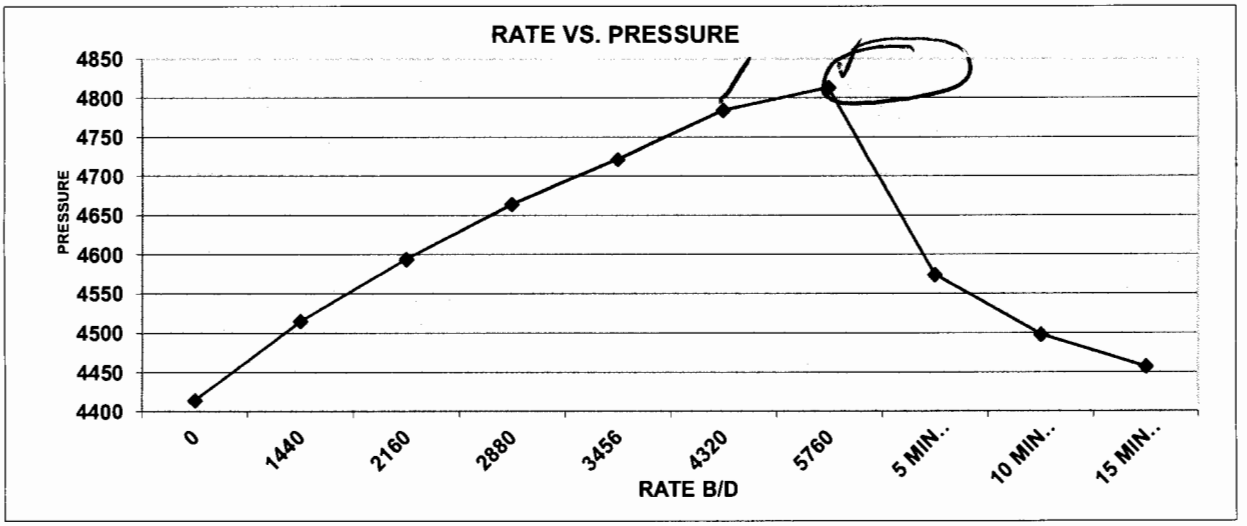
GRAY WIRELINE

STEP RATE TEST

graywsi2@aol.com

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	7/23/2013	11:45 AM	4414	700	
1440	7/23/2013	12:00 PM	4515	900	
2160	7/23/2013	12:15 PM	4594	1125	
2880	7/23/2013	12:30 PM	4664	1450	
3456	7/23/2013	12:45 PM	4722	1625	
4320	7/23/2013	1:00 PM	4784	1675	
5760	7/23/2013	1:15 PM	4813	1750	
5 MIN FALL OFF	7/23/2013	1:20 PM	4574	1350	
10 MIN FALL OFF	7/23/2013	1:25 PM	4498	1250	
15 MIN FALL OFF	7/23/2013	1:30 PM	4457	1225	

Company:	CHEVRON	Recorded By:	T. STANCZAK
Well:	SKELLY UNIT # 950	Witnessed By:	
Field:	FREN	Truck Number:	104
County:	EDDY	District:	LEVELLAND
State:	NEW MEXICO	Tool Number:	
Disposal:	WATER	Test Type:	STEP RATE TESTS
Shut In Time:	1:15:00 PM	POSSIBLE SOFT FRAC @ 4320 B/D	
Total Shut In Time:	15 MIN.	1675 SURFACE PRESSURE	
Tubing Size:	3 1/2	4784 BOTTOM HOLE PRESSURE	
Open Hole:	N/A	HARD FRAC @ 5760 B/D	
Perforations:	7494'-7848', 9362'-9780'	1750 SURFACE PRESSURE	
Plug Back Depth	N/A	4812 BOTTOM HOLE PRESSURE	



GWSi

Pressure Survey Report

CHEVRON

SKELLY UNIT # 950

July 23, 2013

JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	SKELLY UNIT # 950
Field – Pool:	FREN
Status:	DISPOSAL
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	7450'
Production Interval:	7494'-7848', 9362'-9780'
Production Through:	TUBING
Tubing Pressure:	1750 psi
Casing Pressure:	0 psi
Shut In Time	1:15 PM
Status:	DISPOSAL
Temperature @ Run Depth	93.13 degF
Surface Temperature:	89.46 degF
Comments	
POSSIBLE SOFT FRAC @ 4320 B/D; BHP @ 4784; SURFACE PRESSURE @ 1675 HARD FRAC @ 5760 B/D; BHP @ 4812; SURFACE PRESSURE @ 1750	

GRAY WIRELINE

WELL INFORMATION SHEET

Well:	SKELLY UNIT # 950		
Well License:		Unique Well Identifier:	30-015-32437
Company:	CHEVRON		
Field	FREN		

Location:		County:	EDDY
Formation:	ABO & WOLFCAMP	State:	NEW MEXICO
Purpose:	PRESSURE LOG	Country:	USA

Permanent Datum	KB	Elevation:	3784'
Vertical Zero Entity		Distance above PD:	17'

Open Hole Completion?	N	(Y)es or (N)o
Casing Liner Present?	N	(Y)es or (N)o
Flow Regime	T	(T)ubing, (A)nnular, or (C)asing

Total Depth:	12,095'	ID Borehole:	7.875"
Packer Depth:	7392'	ID Production Casing:	5"
Depth of whipstock:	N/A	OD Production Tubing:	3.5"
Depth at which casing is landed:	12,095'	ID Production Tubing:	2.9"
Depth at which tubing is landed:	73.92'	ID Drill Pipe:	N/A

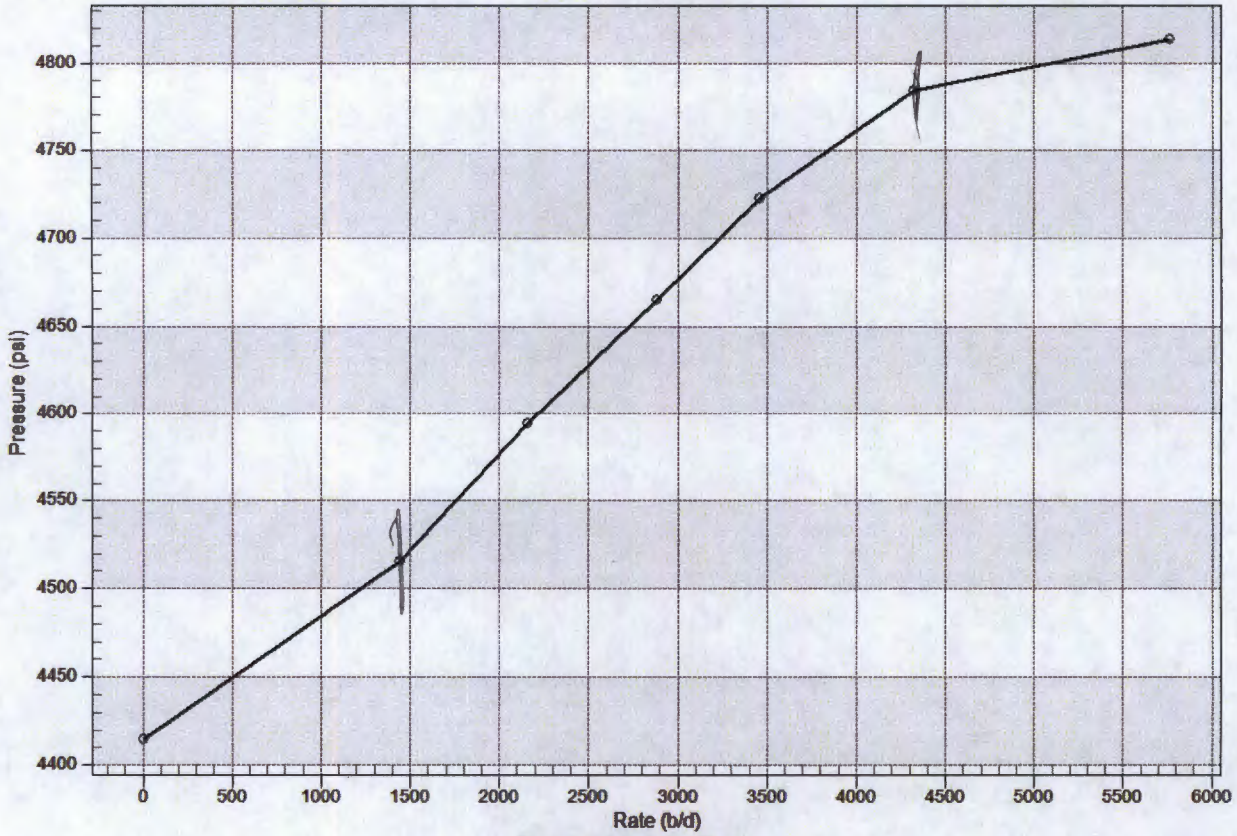
Gradient Data Report

CHEVRON
SKELLY UNIT # 950

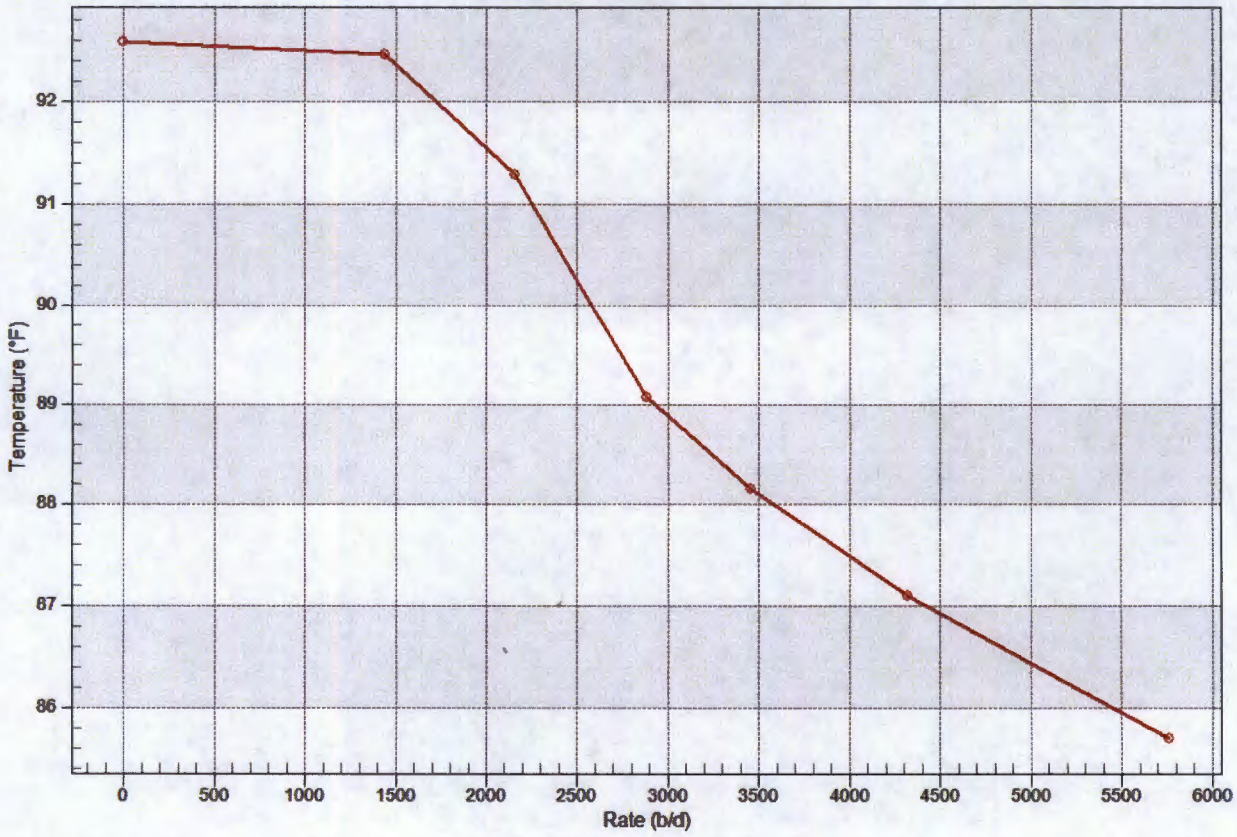
Gradient Data Table

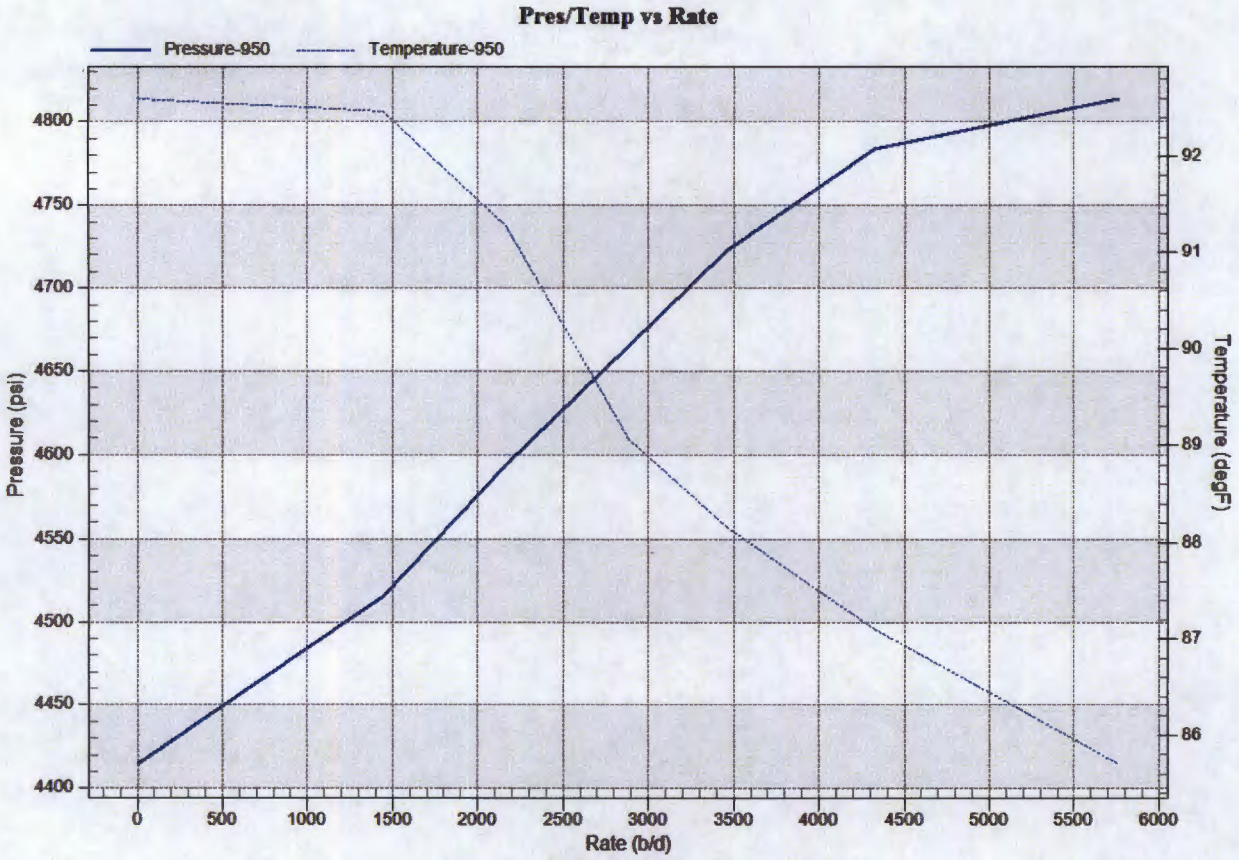
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	4414.56	92.59	0.0000
1440.00	4515.09	92.47	0.0698
2160.00	4594.19	91.28	0.1099
2880.00	4664.68	89.07	0.0979
3456.00	4722.40	88.16	0.1002
4320.00	4784.02	87.11	0.0713
5760.00	4813.66	85.70	0.0206

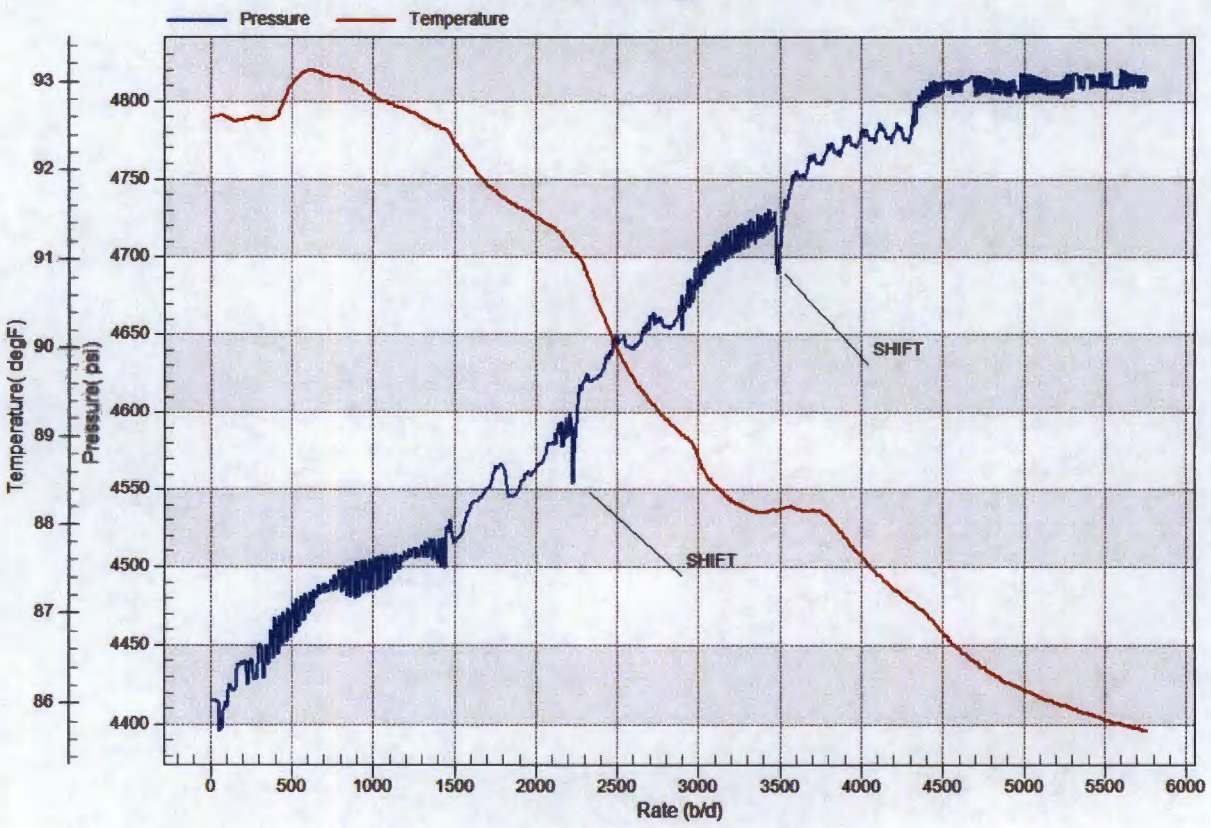
Pressure vs. Rate



Temperature vs. Rate




Pres/Temp vs Rate
Pressure-950
Temperature-950
Pressure (psi)
Temperature (degF)
Rate (b/d)


Pressure Log
Pressure
Temperature
Temperature(degF)
Pressure(psi)
SHIFT
SHIFT
Rate (b/d)

Skelly Unit 950 Wellbore Diagram

Created:	02/22/13	By:	PTBP	Well #:	950	Fd./St. #:	NM-98122
Updated:		By:		API	30-015-32437		
Lease:	Skelly Unit			Surface	Tshp/Rng:	17-S & 31-E	
Field:	Fren			Unit Ltr.:	C	Section:	28
Surf. Loc.:	973' FNL & 2,226' FWL			Bottom hole	Tshp/Rng:		
Bot. Loc.:				Unit Ltr.:		Section:	
County:	Eddy	St.:	NM	Cost Code:	UCLK80100		
Status:	SWD well			Chevno:	HI1842		

Surface Casing

Size:	13 3/8"
Wt., Grd.:	48#, H-40
Depth:	450'
Sxs Cmt:	700 sx
Circulate:	374 sx
TOC:	Surface
Hole Size:	17 1/2"

Intermediate Casing SW

Size:	8 5/8"
Wt., Grd.:	32#, J-55
Depth:	4500'
Sxs Cmt:	2570 sx
Circulate:	500 sx
TOC:	Surface
Hole Size:	12 1/4"

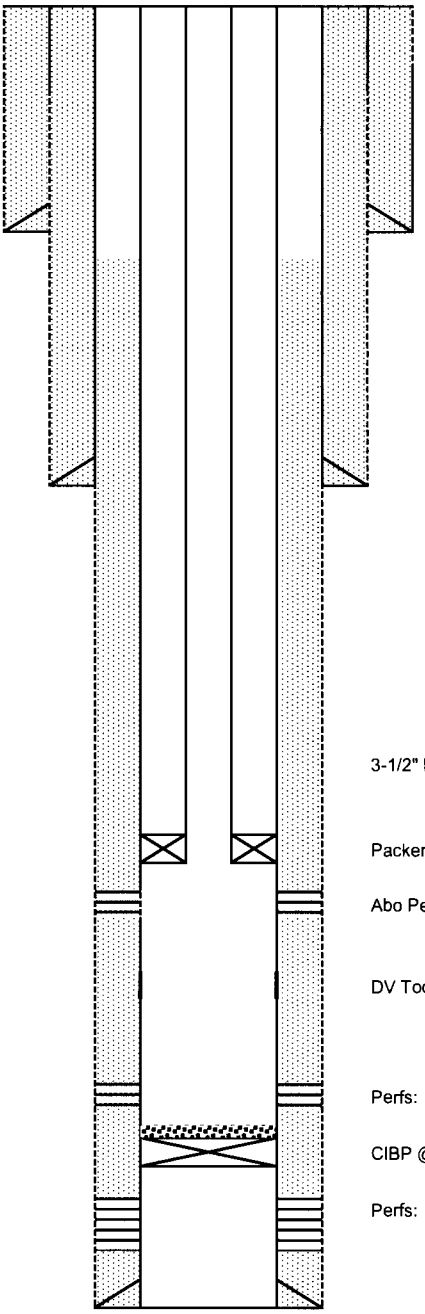
Production Casing

Size:	5 1/2"
Wt., Grd.:	17#, C-95&N-80

Float Shoe, 2 jts 5 1/2" 17# C-95, Float Collar, 39 jts 5 1/2" 17# C95 (1707.63') followed by 42 jts 5 1/2" 17# N-80, DV Tool @8500', 196 jts 5 1/2" 17# N-80 csg, set @ 12095.

Depth:	12095'
Sxs Cmt:	1720 sx
Circulate:	No
TOC:	1390' by CBL
Hole Size:	7 7/8"

DV Tool @ 8500'



KB:	3801'
DF:	3800'
GL:	3784'
Spud Date:	12/19/02
Comp. Date:	03/24/03

3-1/2" L-80 TK-99 IPC Tubing

Packer @ 7408' w/ on-off tool

Abo Perfs: 7494'-7848'

DV Tool @ 8500'

Perfs: 9362'-9780'

CIBP @ 10370'

Perfs: 11796'-11805'

PBTD: 10,246 MD
TD: 12,095 MD