Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-22625

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. L0-6654-0002

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: State 19

1. Type of Well: Oil Well [ ] Gas Well [X] Other SWD WELL

8. Well Number 2

2. Name of Operator: V-F Petroleum Inc.

9. OGRID Number: 24010

3. Address of Operator: P.O. Box 1889, Midland, Texas 79702

10. Pool name or Wildcat: SWD; Devonian

4. Well Location
Unit Letter N : 860 feet from the South line and 2057 feet from the West line
Section 19 Township 19S Range 28E NMPM Eddy County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3493' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	P AND A [ ]
PULL OR ALTER CASING [ ]	MULTIPLE COMPL [ ]	CASING/CEMENT JOB [ ]	
DOWNHOLE COMMINGLE [ ]			
CLOSED-LOOP SYSTEM [ ]			
OTHER: [ ]		OTHER: COMPLETION [X]	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Daily report of completion activities attached. Key Dates are:

3/18/2022 Preform bottom hole pressure test (attached)

10/19/2022 Commence Completion Operations

10/28/2022 Acidize open hole with 23,340 gal HCL and 11,928 gals CLO2

11/15/2022 Set permanent injection packer at 11,915' KB (22' above top of open hole (11,937'-12,625'))

11/16/2022 Install tubing 3.5", 9.3#, L-80 P-700 HTSWD and sting same into injection packer.

11/18/2022 Well ready for injection

8/16/2023 Preform new MIT test successfully (attached)

Spud Date: 8/4/1978 Rig Release Date: 2/19/2022

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Ryan B Curry TITLE Regulatory Supervisor DATE 8/30/2023

Type or print name Ryan Curry E-mail address: Ryan@VFPetroleum.com PHONE: 432-683-3344

For State Use Only

APPROVED BY: Dean R McClure TITLE Petroleum Engineer DATE 01/12/2024

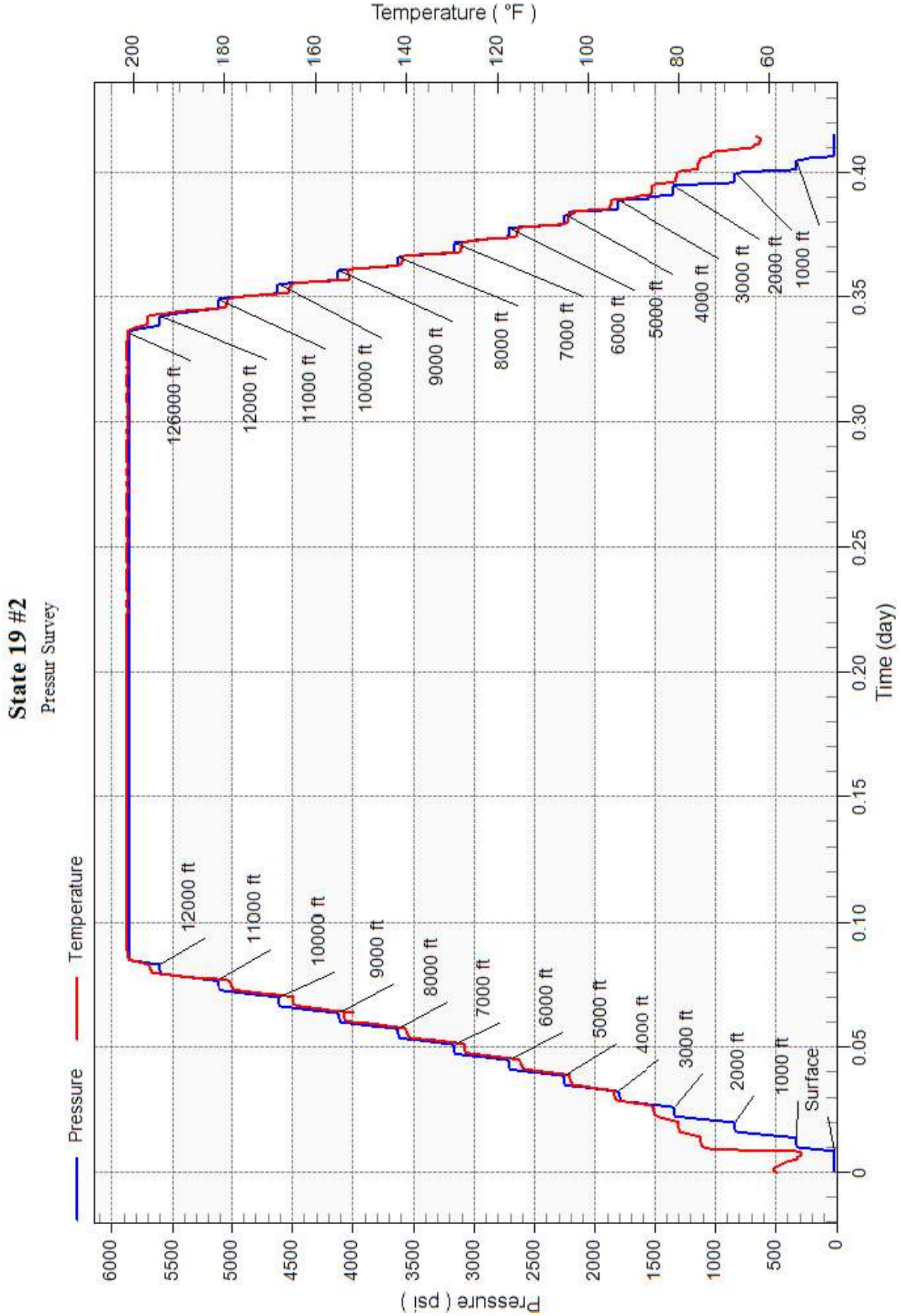
Conditions of Approval (if any):

10/18/2022	MIRU Paramount Well Service Unit #1
10/19/2022	TIH to 5,580’ with treating string and temporary packer
10/20/2022	Continue TIH w/ injection string to 9,970’
10/21/2022	Repair completion equipment
10/22/2022	Repair completion equipment
10/23/2022	Repair completion equipment
10/24/2022	Wait on well service unit repairs
10/25/2022	Repairs to well service unit longer than anticipated. Move unit to yard.
10/26/2022	MIRU new well service unit. Release packer and TIH w/same. Load backside and test tubing and packer to 1,500# successfully.
10/27/2022	Prepare completion fluid and equipment
10/28/2022	MIRU CP Energy Services. Pump 23,340 gals 15% HCL followed by 11,928 gallons of chlorine dioxide down 3-1/2” tubing in Devonian open hole interval 11,937’-12,625’ with 4 stages.
10/29/2022	SITP on vacuum
10/30/2022	SITP on vacuum
10/31/2022	Bled off casing. Commence laying down rental 3-1/2” treating tubing string.
11/1/2022	Finish laying down 3-1/2” treating tubing string. LD treating packer and load out same.
11/2/2022	Cement cellar from bottom to 1’ below 8-5/8” wellhead
11/3/2022	WOC
11/4/2022	Shut down for weekend
11/7/2022	Waiting on wireline equipment
11/15/2022	MIRU well service unit. 0# SICP. RU wireline and make up injection packer assembly. RIH with injection packer assembly and set @ depth of 11,915’ KB. Set down on packet and verify setting successfully.
11/16/2022	Make up on-off tool and 3.5” HTSWD x 2-7/8” crossover. Pick up internally coated 3-1/2” 9.30 #, L-80, P-700 HTSWD injection tubing and run in hole with same.
11/17/2022	Continue RIH with 3 ½” injection tubing. Size and sting into injection packer assembly. Pressure test annulus to 550# for 32 minutes successfully. MIT test successful per Dan Smollick verified via images. No NMOCD representative on site. Land tubing hanger in wellhead, NU injection tree, test void space to 800# for 15min successfully.
11/18/2022	Check SICP & SITP both static at 0#. RU kill truck and pumped plug from bottom of injection packer assembly. Well on instant vacuum. RD kill truck and well service unit. Well ready to inject.

State 19 #2 Gradient Out
March 18, 2022

JOB INFORMATION SHEET

Company Information		
Company Name:	Oxy	
Well Information		
Well Name:	State 19 #2	
Location:	Eddy County, NM	
Field – Pool:	State 19 #2	
Test Information		
Type of Test:	Pressure Survey	
Gauge Depth:	12600 ft	
Temperature @ Run Depth	201.44 degF	
Surface Temperature:	52.74 degF	
Gauge Information		
	Top Recorder	Bottom Recorder
Serial Number:	76168	
Calibration Date:	6/8/18	
Pressure Range:	5997 psi	
Comments		
Pressure Survey Stops every 1000ft from surface to 12600ft Set at 12600ft from 9:14am to 3:14pm Stops every 1000ft coming out of well		


State 19 #2
Pressur Survey
Pressure
Temperature
Temperature (°F)
Pressure (psi)
Time (day)
126000 ft
12000 ft
11000 ft
10000 ft
9000 ft
8000 ft
7000 ft
6000 ft
5000 ft
4000 ft
3000 ft
2000 ft
1000 ft
Surface

Gradient Data Report

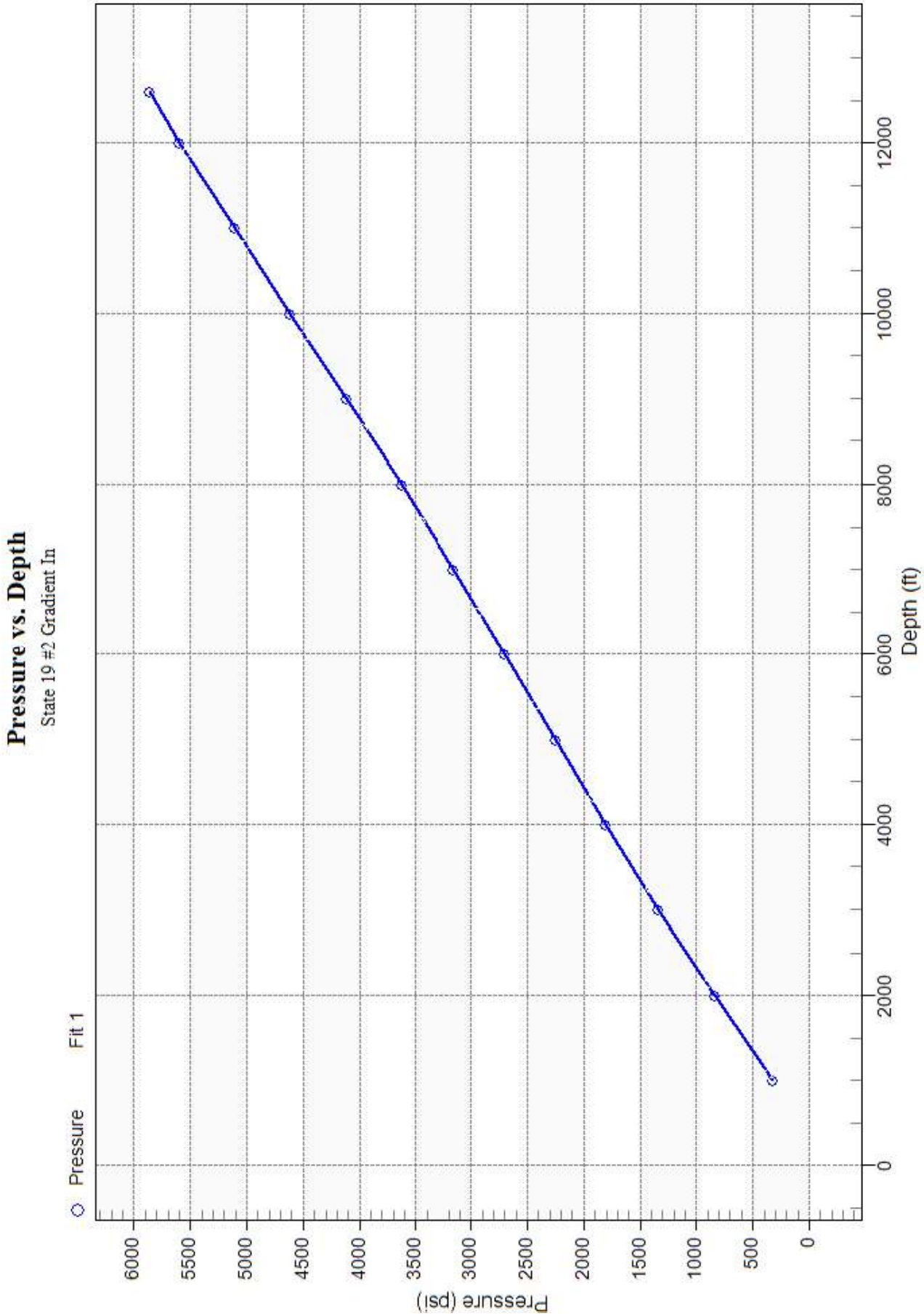
State 19 #2 Gradient In

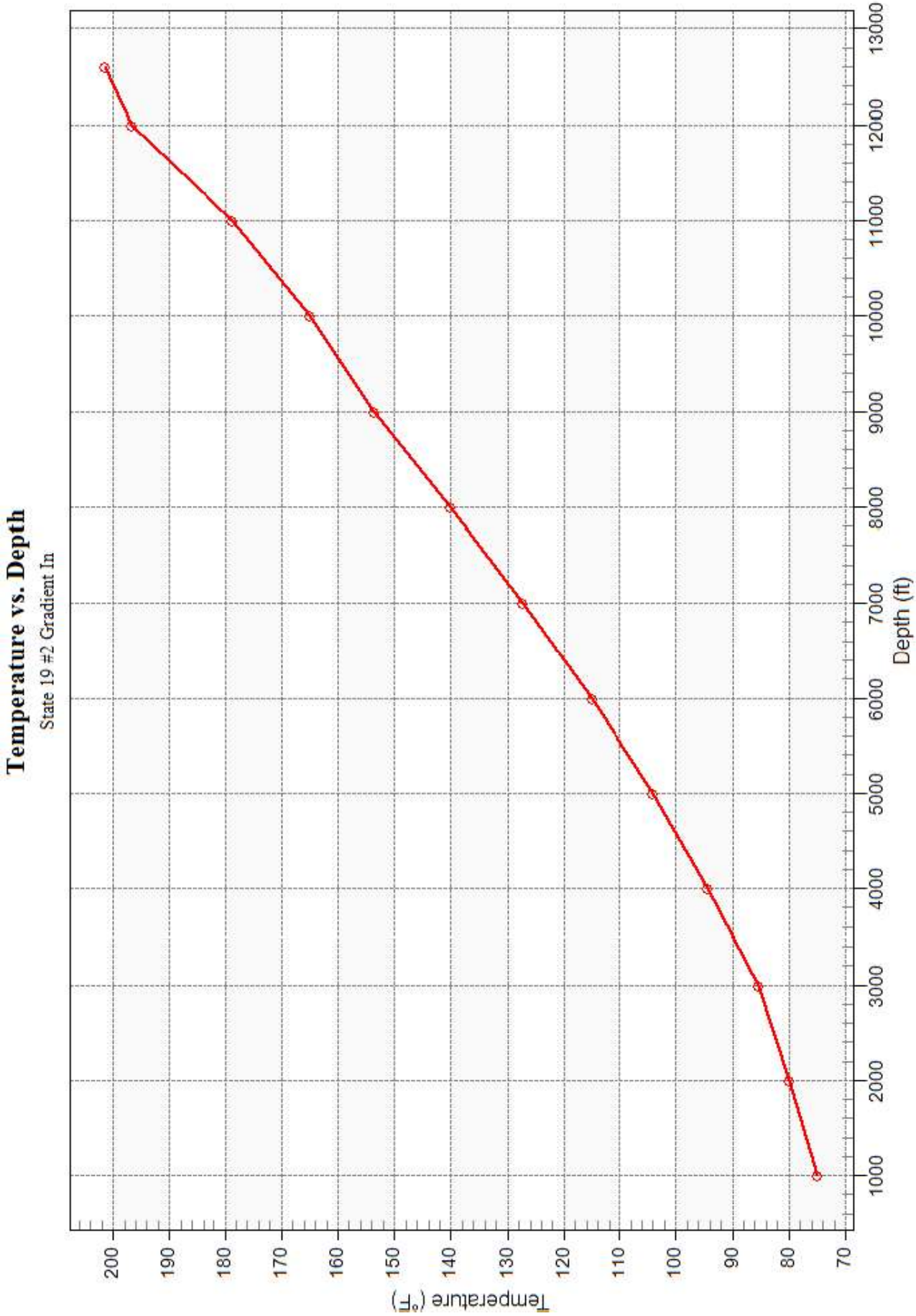
Gradient Data Table

Depth ft	Pressure psi	Temperature degF	Gradient psi/ft
1000.00	325.80	75.01	0.0000
2000.00	832.72	80.06	0.5069
3000.00	1339.04	85.44	0.5063
4000.00	1804.21	94.43	0.4652
5000.00	2253.64	104.03	0.4494
6000.00	2709.33	115.00	0.4557
7000.00	3156.86	127.23	0.4475
8000.00	3624.07	140.03	0.4672
9000.00	4115.27	153.72	0.4912
10000.00	4612.58	164.92	0.4973
11000.00	5112.94	178.63	0.5004
12000.00	5600.13	196.65	0.4872
12600.00	5856.76	201.40	0.4277

Analysis Summary

Depth ft	Gradient psi/ft
0.00	
	0.4768
12600.00	


Pressure vs. Depth
State 19 #2 Gradient In
Pressure
Fit 1
Pressure (psi)
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
2000
4000
6000
8000
10000
12000
Depth (ft)


Temperature vs. Depth
State 19 #2 Gradient In
Temperature (°F)
200
190
180
170
160
150
140
130
120
110
100
90
80
70
Depth (ft)
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000

Gradient Data Report

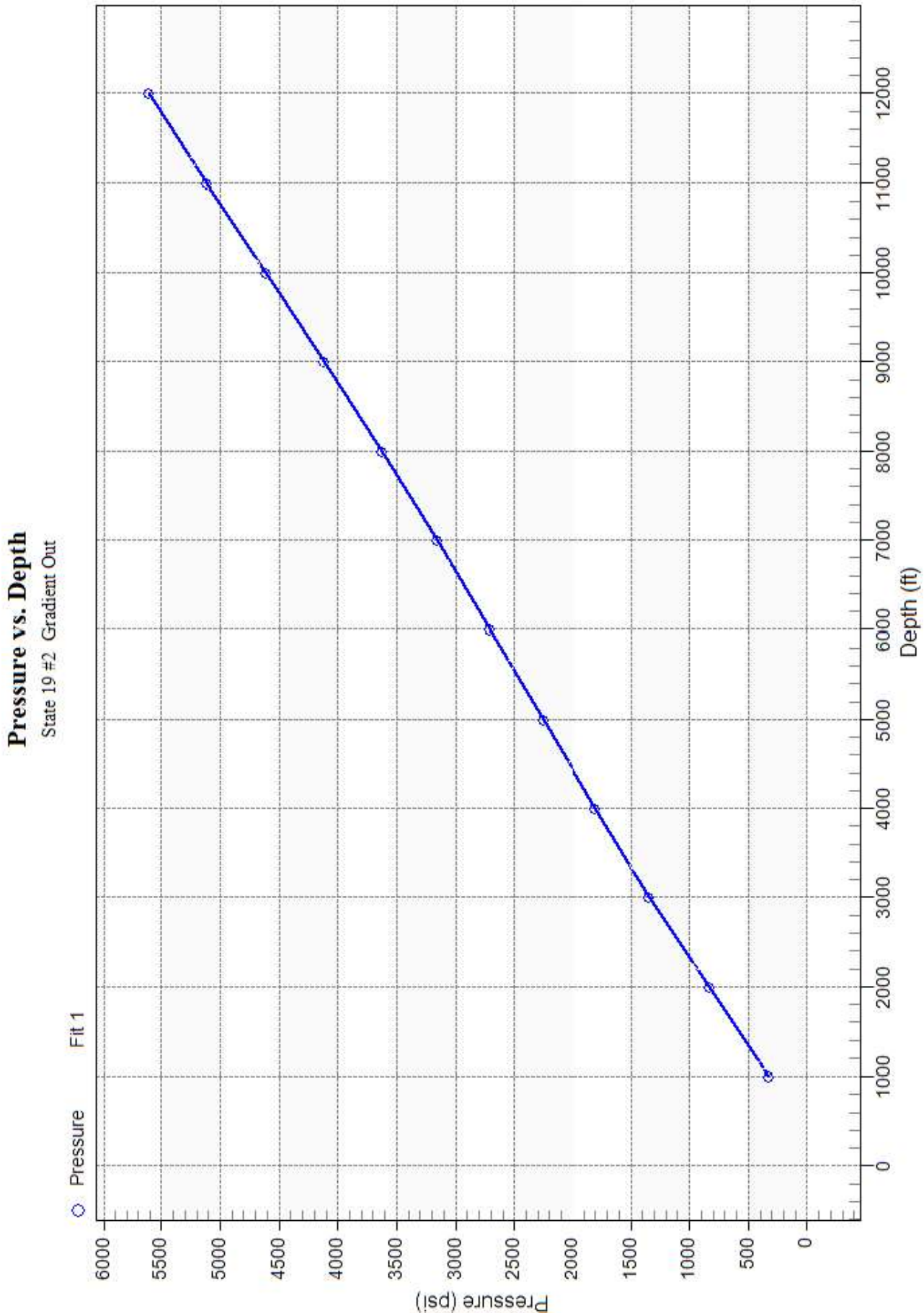
State 19 #2 Gradient Out

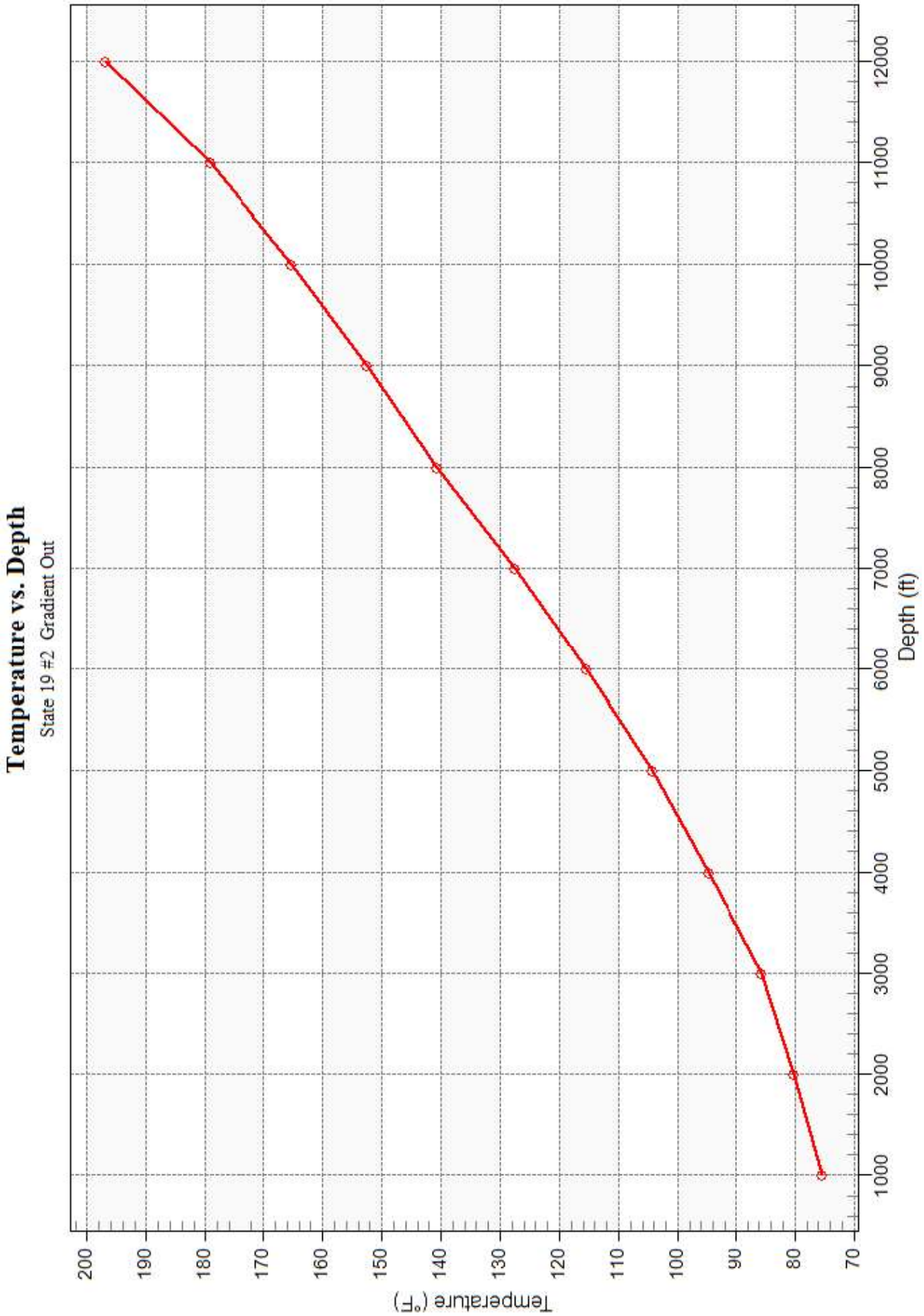
Gradient Data Table

Depth ft	Pressure psi	Temperature degF	Gradient psi/ft
1000.00	328.46	75.44	0.0000
2000.00	834.92	80.28	0.5065
3000.00	1340.79	85.58	0.5059
4000.00	1806.59	94.77	0.4658
5000.00	2255.55	104.30	0.4490
6000.00	2711.33	115.36	0.4558
7000.00	3159.30	127.60	0.4480
8000.00	3626.92	140.60	0.4676
9000.00	4118.71	152.57	0.4918
10000.00	4615.33	165.35	0.4966
11000.00	5116.21	179.11	0.5009
12000.00	5602.33	196.87	0.4861

Analysis Summary

Depth ft	Gradient psi/ft
0.00	
	0.4794
12000.00	


Pressure vs. Depth
State 19 #2 Gradient Out
Pressure
Fit 1
Pressure (psi)
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
Depth (ft)


Temperature vs. Depth
State 19 #2 Gradient Out
Temperature (°F)
200
190
180
170
160
150
140
130
120
110
100
90
80
70
Depth (ft)
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000

V-F Petroleum Inc			
Well Name: State 19 #2 SWD	Field: SWD; Devonian		
Location: 860' FSL & 2057' FWL; 19-19S-28E	County: Eddy	State: NM	
Elevation: 3,495' GL / 3,513' RKB (KB:18ft)	Re-Entry Date: 1/20/22	Compl Date: 10/19/22	
API#: 30-015-22625	Prepared by: KALE JACKSON	Date: 12/14/22	SWD Order: #2351

V-F

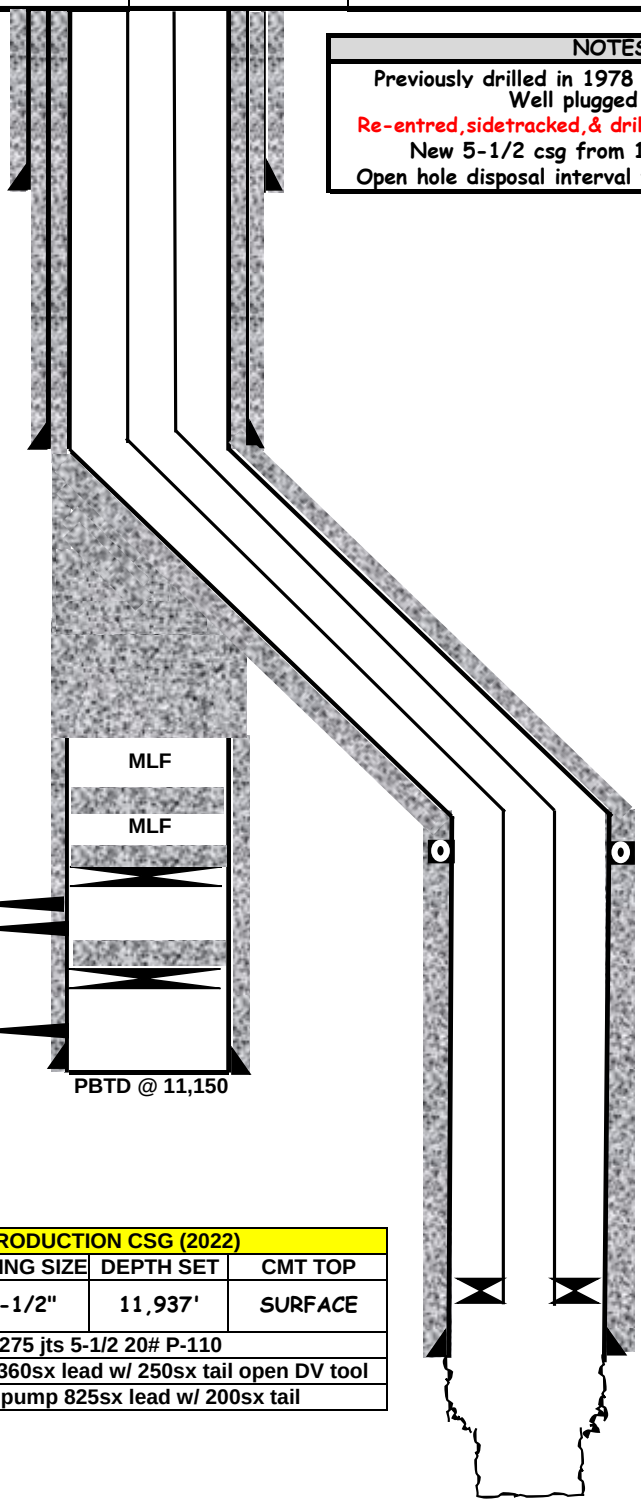
CURRENT SCHEMATIC

NOTES:
Previously drilled in 1978 to Morrow Formation
Well plugged in 2014
Re-entred,sidetracked,& drilled to Devonian in 2022
New 5-1/2 csg from 11,937 to surface
Open hole disposal interval from 11,937 - 12,023

SURFACE CASING (1978)			
HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
17 -1/2"	13-3/8"	447'	SURFACE
48# H-40 ST&C. 575 sks cmt (130 sks to surf)			

INTERMEDIATE CASING (1978)			
HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
11"	8-5/8"	2,488'	SURFACE
24# K-55. 900 sks (60 sks to surf)			

PREVIOUS PRODUCTION CSG (1978)			
HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
7-7/8"	5-1/2"	11,150'	SURFACE
17# & 20# N-80 CSG. TD @11,325			
CSG cut & pulled @ 7,017 during 2014 P&A			



CMT KOP @ 6,853
Time Drill 7-7/8"
sidetrack 6ft / 3*
INC to 6,917'

DV TOOL @ 7,487

INJECTION TUBING
3-1/2" 9.3# L-80
HTSWD P700

INJECTION PACKER
SET @ 11,915

PRODUCTION CSG (2022)			
HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
7-7/8"	5-1/2"	11,937'	SURFACE
275 jts 5-1/2 20# P-110			
Stage 1 pump 360sx lead w/ 250sx tail open DV tool			
Stage 2 pump 825sx lead w/ 200sx tail			

STEP RATE TEST
Performed w/ 9.2# PW
3 BPM @ 657 psi
5 BPM @ 1,380 psi
8 BPM @ 2,260 psi

OPEN HOLE (2022)		
HOLE SIZE	START	TD
7-7/8"	11,937'	12,023'
4-3/4"	12,023'	12,625'

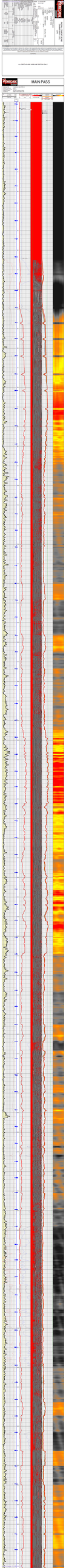
NOTE: DRAWING NOT TO SCALE

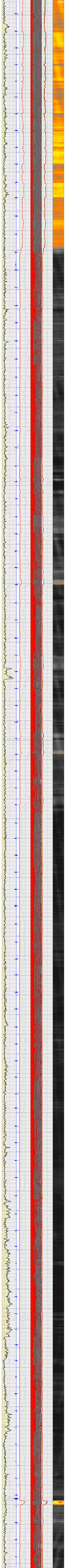
COMPANY	ENI OIL & GAS
WELL	ENI OIL & GAS
FIELD	ENI OIL & GAS
COUNTY	ENI OIL & GAS
STATE	ENI OIL & GAS
API NUMBER	ENI OIL & GAS
LOCATION	ENI OIL & GAS
LATITUDE	ENI OIL & GAS
LONGITUDE	ENI OIL & GAS
SECTION	ENI OIL & GAS
TOWNSHIP	ENI OIL & GAS
RANGE	ENI OIL & GAS
PERMANENT DATUM	ENI OIL & GAS
LOG MEASURED FROM	ENI OIL & GAS
DRILLING MEASURED FROM	ENI OIL & GAS
ELEVATION	ENI OIL & GAS
DATE	ENI OIL & GAS
RUN NUMBER	ENI OIL & GAS
DEPTH DRILLER	ENI OIL & GAS
DEPTH LOGGER	ENI OIL & GAS
BOTTOM LOG INTERVAL	ENI OIL & GAS
TOP LOG INTERVAL	ENI OIL & GAS
CASING DRILLER	ENI OIL & GAS
CASING LOGGER	ENI OIL & GAS
BIT SIZE	ENI OIL & GAS
TYPE FLUID IN HOLE	ENI OIL & GAS
DENSITY	ENI OIL & GAS
VISCOSITY	ENI OIL & GAS
PH	ENI OIL & GAS
FLUID LOSS	ENI OIL & GAS
SOURCE OF SAMPLE	ENI OIL & GAS
RM @ MEASURED TEMP	ENI OIL & GAS
RMF @ MEASURED TEMP	ENI OIL & GAS
RMC @ MEASURED TEMP	ENI OIL & GAS
RM @ BHT	ENI OIL & GAS
MAX RECORDED TEMP	ENI OIL & GAS
BASE TIME	ENI OIL & GAS
LOGGING DISTRICT	ENI OIL & GAS
LOGGING ENGINEER	ENI OIL & GAS
WITNESS	ENI OIL & GAS

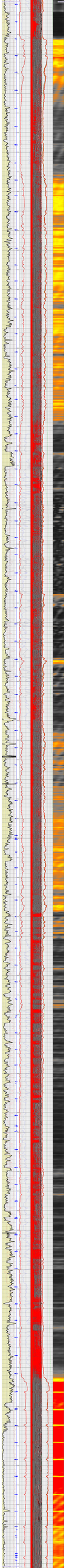
ALL DEPTHS ARE OFFSET BY 25.0 FT

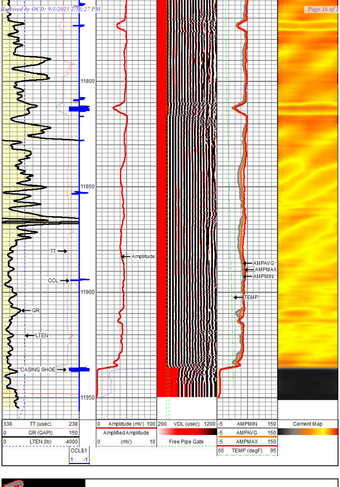
MAIN PASS

DEPTH SHIFT	ENI OIL & GAS
CABLE SPEED	ENI OIL & GAS
MAXIMUM TENSION	ENI OIL & GAS
MINIMUM TENSION	ENI OIL & GAS
TOOL STRING	ENI OIL & GAS
TOOL STANDOFF	ENI OIL & GAS
SAMPLE RATE	ENI OIL & GAS
DATA FORMAT	ENI OIL & GAS
DATA COMPRESSION	ENI OIL & GAS
DATA CHECKSUM	ENI OIL & GAS
DATA ERROR BLOCKS	ENI OIL & GAS
TOTAL DATA BLOCKS	ENI OIL & GAS
TOTAL DATA FRAMES	ENI OIL & GAS
MAX FRAME SIZE	ENI OIL & GAS
MEDIUM	ENI OIL & GAS
MEDIUM DENSITY	ENI OIL & GAS
RECORD LENGTH	ENI OIL & GAS
LOGGING DISTRICT	ENI OIL & GAS
LOGGING ENGINEER	ENI OIL & GAS
WITNESS	ENI OIL & GAS



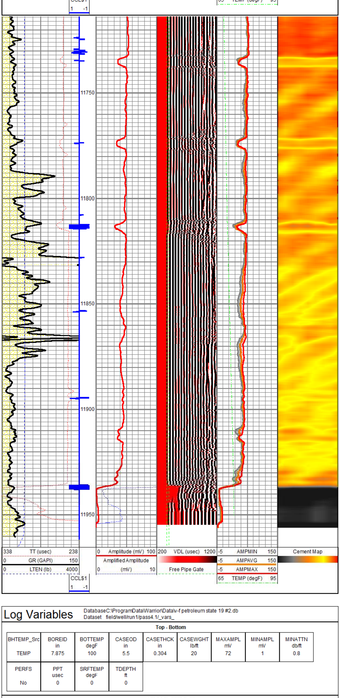






REPEAT PASS

Database File v-f petroleum state 19 #2.db
Dataset Pathname pass4.1
Presentation Format mpu_cbl
Dataset Creation Thu Mar 03 15:35:12 2022
Charted by: Depth in Feet scaled 1:240



Log Variables

Database:C:\Program\Data\Vanio\Data-v f petroleum state 19 #2.db
Dataset fieldswellrun1pass4.1_vars_

Top - Bottom

BHTEMP_Src	BORE ID in	BOTTEMP degF	CASE OD in	CASETHICK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft
TEMP	7.875	100	5.5	0.304	20	72	1	0.8

PERFS	PPT state	SRTEMP degF	TDEPTH ft
No	0	0	0

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BORE ID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASE OD : Casing O.D.
CASETHICK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File v-f petroleum state 19 #2.db
Dataset Pathname pass4.1
Dataset Creation Thu Mar 03 15:35:12 2022

Gamma Ray Calibration Report

Serial Number: FW1810-096
Tool Model: GC275-0000
Performed: (Not Performed)

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 2.75Tacc_base
Tool Model: Probe275Tacc

Calibration Casing Diameter: 5.500 in
Calibration Depth: 841.092 ft

Master Calibration, performed Thu Mar 03 12:32:27 2022

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.022	1.287	1.000	71.921	56.068	-0.242
CAL	0.020	1.072				
5'	0.027	0.949	1.000	71.921	75.900	-1.040
SUM						
S1	0.027	1.204	0.000	100.000	84.939	-2.264
S2	0.022	1.224	0.000	100.000	81.181	-1.790
S3	0.022	1.283	0.000	100.000	79.342	-1.776
S4	0.022	1.352	0.000	100.000	75.209	-1.662
S5	0.025	1.382	0.000	100.000	73.693	-1.819
S6	0.022	1.349	0.000	100.000	75.378	-1.690
S7	0.023	1.301	0.000	100.000	78.211	-1.776
S8	0.020	1.257	0.000	100.000	80.952	-1.544

Internal Reference Calibration, performed Thu Mar 03 12:20:34 2022

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.020	1.072	1.000	0.000

Air Zero Calibration, performed Thu Mar 03 12:19:08 2022

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: 2.75Tacc_base
Tool Model: Probe275Tacc
Performed: (Not Performed)

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing:	1			

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer:	0.00	1.00	0.00	1.00	gee
Y Accelerometer:	0.00	1.00	0.00	1.00	gee
Z Accelerometer:	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
EHCI	20.43		CHD-1.43TSCHD "Rear Cable Head 1.71/16"	1.00	1.44	5.40
			CENT-PT5275 BC275-0000 Centralizer	2.83	2.75	24.00
TEMP	13.80		RBTSacc-Probe275Tacc (2.75Tacc_base) "2.75" Radial with Integral Temperature Sub	9.20	2.75	
WVFS8	11.65					
WVFS7	11.65					
WVFS6	11.65					
WVFS5	11.65					
WVFS4	11.65					
WVFS3	11.65					
WVFS2	11.65					
WVFS1	11.65					
WVFSFT	11.65					
WVFSFT	10.65					
RBT_HV	7.40					
RBT_ACC2	7.40					
RBT_ACCY	7.40					
RBT_ACCX	7.40		CENT-PT5275 BC275-0000 Centralizer	2.83	2.75	24.00
WVFSYNC	7.40					
WVFCAL	7.40					
CCLS2	3.63					
CCLS1	3.63					
GR	2.38		GC-GC275-0000 (FW1810-096) "Probe GC275-0000 rev.2"	4.57	2.75	55.00

Dataset: v-f petroleum state 19 #2.db: fieldswellrun1pass4.1
Total length: 20.43 ft
Total weight: 108.40 lb
O.D.: 2.75 in

Company	V-F PETROLEUM		
Well	STATE 19 #2		
Field			
County	EDDY		
State	NEW MEXICO	Country	USA

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 261429

CONDITIONS

Operator: V-F PETROLEUM INC P.O. Box 1889 Midland, TX 79702	OGRID: 24010
	Action Number: 261429
	Action Type: [C-103] Sub. (Re)Completion Sundry (C-103T)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Submit the logs as a [UF-WL] EP Well Log Submission (WellLog)	1/12/2024