BW – 36

PERMIT APPLICATIONS, RENEWALS, & MODS

2018

Chavez, Carl J, EMNRD

From: David Alvarado <davidal00136@gmail.com>
Sent: Thursday, April 5, 2018 1:33 PM
To: Chavez, Carl J, EMNRD
Subject: Discharge Renewal for Schubert Farms Well No. 1 BW-36 with Exhibits
Attachments: Discharge Renewal BW-36.pdf; Schubert Farms B-36 Exhibits A-L.pdf; Schubert Farms B-36 Exhibits M-T.pdf

Hi, Carl here is the Renewal for the Schubert Farms Well No. 1 BW-36
with the Exhibits.

Thanks once more
Dave

DISCHARGE RENEWAL APPLICATION FOR BRINE EXTRACTION

H.R.C., INC

BW-36

API # 30-025-37548

SCHUBERT FARMS WELL No. 1

April 5, 2018

DAVID H. ALVARADO

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised August 1, 2011

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITES

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ■ Renewal

I. Facility Name: Schubert Farms Well No.1 API 30-025-37548 .

II. Operator: H.R.C., INC (GARY SCHUBERT OWNER) .

Address: PO BOX 5102 HOBBS, NEW MEXICO 88241-5102 .

Contact Person: GARY SCHUBERT Phone: (575) 393-6662 .

III. Location: NW /4 NE /4 Section 25 Township 19S Range 38E .
Submit large scale topographic map showing exact location. **PLEASE SEE EXHIBIT A**

IV. Attach the name and address of the landowner of the facility site.

V. Attach a description of the types and quantities of fluids at the facility.

VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.

VII. Attach a description of underground facilities (i.e. brine extraction well).

VIII. Attach a contingency plan for reporting and clean-up of spills or releases.

IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.

X. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

XI. CERTIFICATION:

I hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name: DAVID H. ALVARADO . Title: Acting Agent for H.R.C. Inc. .

Signature:  Date: 4/5/18 .

E-mail Address: davidal00136@gmail.com

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITES

I. NAME OF FACILITY

This is a renewal application for existing Class III solution brine mine well at the H.R.C. Brine Facility Shubert Farms # 1. (30-025-375548)
LAT: 32.6375999
LONG: -103.0988007

II. NAME OF OPERATOR OR LEGALLY RESPONSIBLE PARTY AND LOCAL REPRESENTATIVE.

The Operator / Legally responsible party are H.R.C., INC. PO Box 5102 Hobbs, New Mexico 88241. Surface is Fee as the lessor owner is Gary Schubert PO Box 5102 Hobbs, New Mexico 88241 (575) 393 3194.

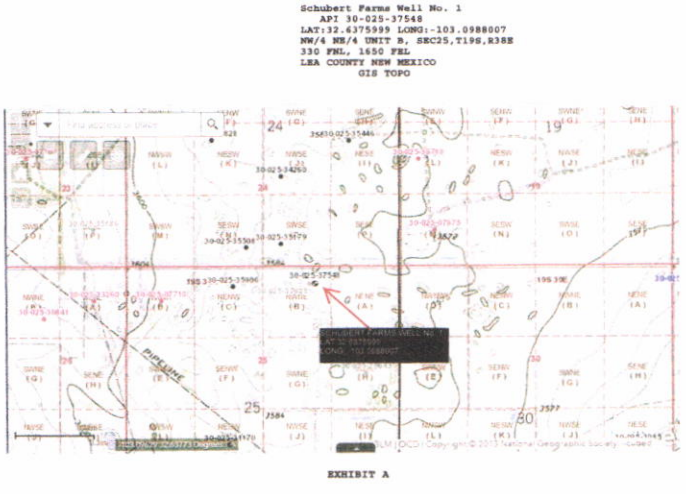
III. LOCATION OF FACILITY

The Schubert Farms # 1 is (NW/4, NE/4 Unit B) of Section 25, Township 19 South, Range 38 East 330 FNL AND 1650 FEL **LAT 32.6375999, LONG -103.0988007** Lea County New Mexico.

The facility is located South of Hobbs approximately 5 miles from HWY 18 and HWY 180 turn left on Nadine road travel .81 miles the front sales facility will be to the left. The Schubert Farms Well No. 1 is located aproxamently 1.28 miles to the northeast of the front sales facility.

The Schubert Farms Well No. 1 has its own facility where brine is stored it is located North of the sales facility aproxamently .36 miles to the northeast

Please see **Exhibit A. Large Topografic Map** with this report.

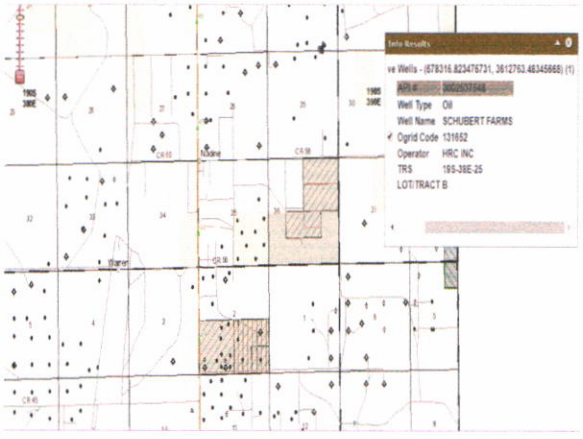


GSI map of Schubert Farms Well No. 1

IV. LANDOWNERS

Gary Schubert and Marcia Schubert, PO Box 5102 Hobbs, New Mexico 88241 are the owners and operators of the Schubert 7 Well No. 1.

Please see **Exhibit: B. State Land Map** at the end of this report.



NMSLO map

V. TYPE AND QUANTITIES OF FLUIDS STORED OR USED AT THE FACILITY

Two types of fluid are stored at the Schubert Farms Well No. 1 facility those are brine and fresh water.

Brine is stored in two fiber glass tanks with a capacity of 500 bbl. each allowing a total of 1000 bbl. capacity.

Brine tanks are kept at a safety level of 6 ft. to 10 ft. at the top end holding a total of 660 bbl. of brine.

Levels vary depending on the demand of the brine on a day to day basis. The brine tanks do not exceed 10 ft. of brine solution volume.

Southwest of the Schubert Farms Well No. 1 are the holding brine tank battery were brine produced from the well is transported to the battery from the Schubert Farms Well No. 1 location .

This battery has eight 500 bbl. tanks containing brine solution with a total capacity of 4000 bbl. Tank levels at this battery are set at 10ft. allowing 6 foot of safety room from filling to a critical level. The maximum safety amount capacity of brine is 2,640 bbl. Please find **Exhibit: S. ISOTOPE** of this battery.

Levels at this battery will fluctuate depending on the demand of sales at the Sales Facility it is transported via poly line by a C-pump.

Fresh water is also stored at the Schubert Farms No 1 location next to the brine fiber glass brine tanks.

Only one Steel 500 bbl. tank supplies the VFD (Variable Frequency Drive) C-pump for the well.

Fresh water is supplied from the Schubert Farms water system where the tank is hooked up to an exit valve located on an irrigation line Pod at the northeast corner of the tank pad berm. This Pod retains positive pressure at all times.

Brine tanks are equalized and the Fresh water tank and the brine tanks are both controlled with a separate head switches set to shut off supply at 10 ft.

Volumes will vary due to day to day operational needs with the demand of brine at the sales loading station.

VI. ATTACH A DISCRIPTION OF ALL FLUID TRANSFER AND STORAGE AND FLUID AND SOLID DISPOSAL FACILITY

Fresh water is supplied from the Schubert Farms irrigation main water line and a water well that sets in front of the pump house.

The farms main irrigation line lies underground and is constructed of polyethylene / PVC line that is stubbed upwards above surface with a Pod and is located at the north- east end of the facility battery holding pad. The Pod holds a constant pressure of around 25 psig. This port is controlled with a motorized valve and is governed by the needed volume within the tank.

The second source of fresh water is generated from a water well that has a submergible pump and is used to help fill the fresh water tanks if the main line is down at any time this well was drilled to the top of the red bed.

Both points of water are terminated at the facilities fresh water tank. The water well discharge is a one inch line dropped into the thief hatch and the main water line from the Pod is tied at the top where the equalizing port is located.

Water column level in the tank is controlled by a head switch located in front of the sales line port of the fresh water tank.

Once the demand of water is initiated by the head switch it opens a 2" motor valve allowing water to enter the fresh water tank.

The 4" line at the sales port 12" form the base of the tank is the feed line to the suction side of the pump within the pump house. This 4" line enters the pump house on the North side of the pump house building. Hydrostatic head methodology is used to feed the supply of water for the pump.

The flow of water enters the pump house below ground then up through a riser where the fresh water assembly line houses a magnetic stim type meter localized in the middle of the assembly.

Passing the meter assembly it is connected to the suction side of the Grundfos HPCR 32 Pump with a 3" flex hose equipped with extra heavy IPC connections and Victaulic connectors.

A control ball valve is located before it enters the meter housing and a ball valve located in front of the F 150 type flange that mates to the pump's suction port located at the base of the multistage pump.

This methodology allows complete isolation allowing full control of any type of work that being connection replacements or work needed to be performed on the meter.

Fresh water then enters the pump where a 25 Hp. motor mounted on top of the pump rotates the multi stage bowls that discharges the fresh water from the opposite side of the suction port and is located also at the base of the pump.

The discharge port is mated with a F150 type flange that has a 4" port and is swedge to 2" with extra heavy IPC connection tee and an ell creating two lines from the discharge side.

Both are mated with control ball valves connected to a high pressure flex hose that are tied at the ends of the connections with Victaulic type connectors.

The primary line is connected to the top of the master valve tree that supplies the water to the bottom hole assemble of the tubing that is set at 2680'.

The other line is a flush line that is tied into the annulus port of the well head. Periodically the casing will be swept with fresh water to keep any salt rings from building up between the casing and tubing.

This methodology is used to keep any buildup of back pressure off the Salado formation. Both the tubbing tree and the annulus are equipped with fluid filled psi gauges.

Pressure readings are read every day and recorded with the meter readings of the fresh water and brine solution extraction in the daily operation reports by the Lease Operator.

Injection is down the 2 7/8 J-55 IPC tubing and maintains a positive surface pressure of 200-250 psig during brine extraction operations. BHA is at a depth of 2,680 ft. most likely a 4 ¾ inch rock type bit was used to set the tubing into the Salado thru a window in the 5 ½" 17# casing that was milled from 2651'-2661'.

Brine is extracted up the 5 1/2" 17 ppf casing to surface through the annulus port of the wellhead.

The port has a nipple then ball valve followed by some connections that create a riser that runs horizontal and is equipped with a check valve. Two ells were used with connections to create a down comer leg that brings the line down where the line is equipped with a nipple that mates to the half of the F150 flange that mates to the flow meter body supported with two U bolts anchoring line to a stand.

Brine solution effluents enters the annulus valve and check valve propelled to the meter where the ploy line takes the saturated brine to the top of the East brine fiber glass 500 bbl. tank via 4" poly SDR 11 for storage.

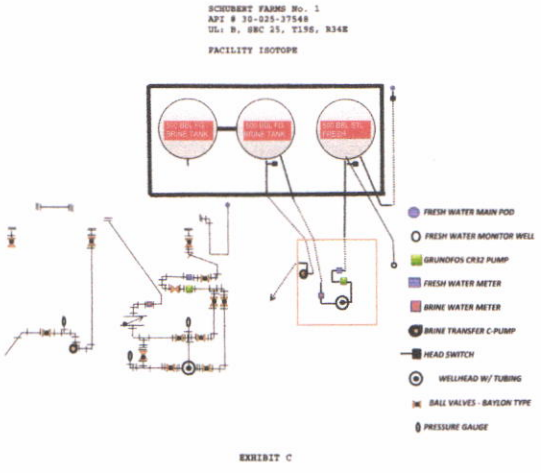
Both tanks are sitting level and above ground with a polyethylene barrier and berm with the ability to hold 133% of total tank volume.

Brine solution is equalized with a line connected between both tanks. A poly line mated with F150 flanges on each end mate to the F150 flanges that are equipped on the fiber glass tanks about 18" from the base of the tanks.

The East brine fiberglass tank sales port has connections that tee supporting a valve and head switch and a line that heads to the pump house building that supplies the suction side of the transfer C-Pump.

The Discharge of the transfer C-pump is at the top and is equipped with a change over swedge back to 2" with a 2" ell, nipple, tee, nipple, and ball valve. The tee has a fluid filled pressure gauge that shows what the

static pressure is as brine is transported to the brine holding tanks located to the south west of the Schubert Farms # 1 Please see **Exhibit: C. Isotope of the Shubert Farms # 1 location** at the end of this report.



Isotope of the Shubert Farms # 1 location

VII. ATTACH A DISCRIPTION OF UNDERGROUND FACILITY

Schubert Farms Well No. 1 spudded on 12/2/05 C 105. C – 103 Subsequent Reported spudded on 12/3/05. 12/4/05 drilling a 12 ¼" hole w/fresh water.

12/5/05 TD surface, 39 joints of 8 5/8"casing was run the point was at 1645' then cemented casing with 700 sx class C cement it was reported that 129 sxs was circulated to the pit.

No record of the BHA was given but normal practice was a saw tooth collar on the bottom of the casing and a float shoe would be run one joint above the saw tooth assembly.

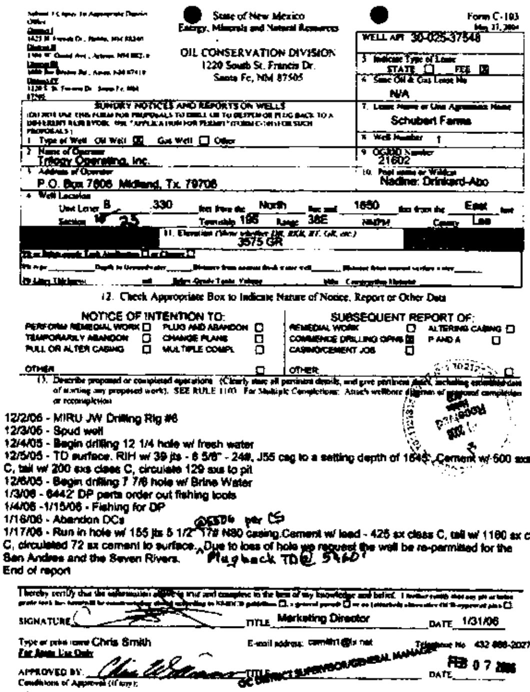
Cubic foot volume between 8 5/8" casing and 12 ¼" hole at the point depth of 1645' is 678.89 cubic feet. 700 sx Cmt. Class C cement at a 1.32 slurry weight has 924 cubic foot of volume. This is 35% excess cement and was brought to surface.

Waited for cement to set, no record of casing testing nor WOC was recorded. On 12/6/05 began drilling 7 7/8" hole commenced at the top of the float collar then drilled out shoe brine water was used.

1/3/06 drill pipe parted at a depth of 6,442 feet they called out for fishing tools. From 1/4/06 thru 1/15/06 the attempt to fish the drill pipe did not succeed 1/16/06 they abandon the drill collars.

1/17/06 5 ½" 17# N80 was run and cemented with 1585 sxs class C cement per C-105 report plug back TD was recorded 5460 feet and 5 1/2" casing point at 5506'. Report stated 72 sxs cement was circulated to the pit. Production Company requested the well be re-permitted for the San Andres and Seven Rivers.

Please see Exhibit D well C-103 Commence Drilling Operations and Casing cement Job at the end of this report.



State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103

SUNDRY NOTICES AND REPORTS ON WELLS

WELL API 30-025-37548
5. Indicate Type of Lease: STATE ☐ FEE ☒
6. State Oil & Gas Lease No. N/A
7. Lease Name or Unit Agreement Name: Schubert Farms
8. Well Number 1
9. OGRID Number 21602
10. Pool name or Wildcat: Nadine: Drinkard-Abo

1. Type of Well: Oil Well ☒ Gas Well ☐ Other
2. Name of Operator: Trilogy Operating, Inc.
3. Address of Operator: P.O. Box 7606 Midland, Tx. 79708
4. Well Location: Unit Letter B 330 feet from the North line and 1650 feet from the East line; Section 25 Township 19S Range 38E NMPM County Lea

[redacted]

11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3575 GR

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ OTHER ☐

SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS ☒ P AND A ☐ CASING/CEMENT JOB ☐ OTHER ☐

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

12/2/05 - MIRU JW Drilling Rig #6
12/3/05 - Spud well
12/4/05 - Begin drilling 12 1/4 hole w/ fresh water
12/5/05 - TD surface. RIH w/ 39 jts - 8 5/8" - 24#, J55 csg to a setting depth of 1645'. Cement w/ 600 sxs class C, tail w/ 200 sxs class C, circulate 129 sxs to pit
12/6/05 - Begin drilling 7 7/8 hole w/ Brine Water
1/3/06 - 6442' DP parts order out fishing tools
1/4/06 - 1/15/06 - Fishing for DP
1/16/06 - Abandon DCs
1/17/06 - Run in hole w/ 155 jts 5 1/2" 17# N80 casing. Cement w/ lead - 425 sx class C, tail w/ 1180 sx class C, circulated 72 sx cement to surface. Due to loss of hole we request the well be re-permitted for the San Andres and the Seven Rivers. Plugback TD @ 5160'
End of report

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

SIGNATURE ______ TITLE Marketing Director DATE 1/31/06

Type or print name Chris Smith E-mail address: csmith1@...net Telephone No. 432 686-2027

For State Use Only

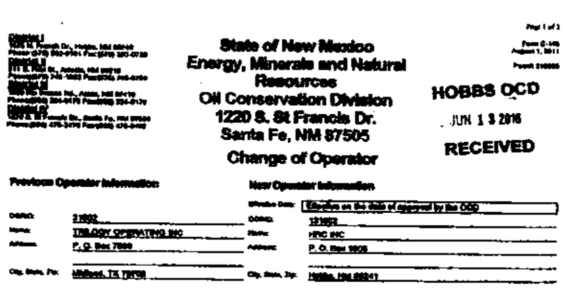
APPROVED BY: ______ TITLE OC DISTRICT SUPERVISOR/GENERAL MANAGER DATE FEB 0 7 2006

Conditions of Approval (if any):

Commence Drilling Operations and Casing cement Job

NMOCD approved Form C-145 Change of Operator from Trilogy Operating Inc. to HRC Inc. and was approved by NMOCD Paul Kautz District 1 on 6/13/2016.

Please see **EXHIBIT: E Change of Operator C-145** at the end of this report



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

HOBBS OCD
JUN 1 3 2016
RECEIVED

Previous Operator Information: Name: TRILOGY OPERATING INC; Address: P. O. Box 7606; City, State, Zip: Midland, TX 79708

New Operator Information: Name: HRC INC; Address: P. O. Box ...

Change of Operator C-145

On June 20, 2016 service unit rigged up on the Schubert Farms 1 and extracted the rods then extracted the tubbing with the pump and laid down BHA.

June 21, 2016 wire line set a CIBP at 2750' then tested the casing and CIBP to 780 psig and showed good continuity. A CBL was run from the top of the CIBP to surface.

Wire line bail dumped 5 sacks of cement on top of the CIBP at 2750' giving over 50 foot of cement column top of cmt. Estimated to be 2700'+. HRC Inc. Submitted the CBL to NM OCD for review.

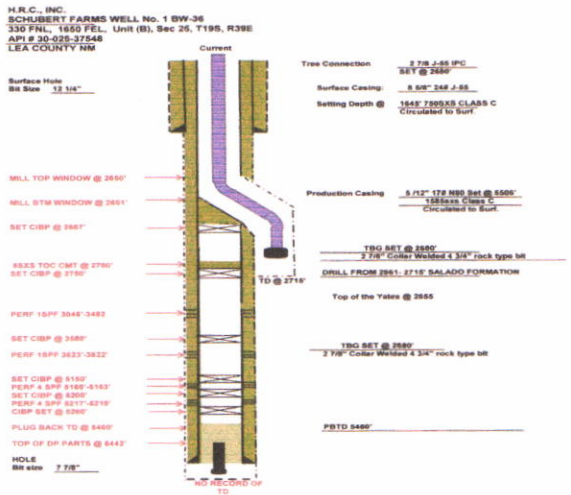
February 9, 2017 Wireline set a CIBP at a depth of 2667' and a whip stock guide was set on 2/20/17.

February 21, 2017 service unit moved in and reverse unit rigged up and made ready to start milling window. Milling started at 2651 to 2661' then came out of the hole with BHA and tripped back in with a bit assembly the new open hole in the Salado formation was drilled down from 2661' to TD at 2715' then came up the hole and left hanging above the window then SDFD.

February 22, 2017 tripped in hole with BHA and tagged at 2703' then proceeded to washed to 2715. Tubbing was spaced out and BHA was set at 2680'. NU wellhead on 2/23/17 well was MIT to 300 psi with a chart recorder and held good. Then proceeded to circulate for five hours well was then shut in.

April 17, 2017 Schubert Farms No. 1 begins injection of fresh water to extract Brine.

February 23, 2917 Schubert Farms Well No. 1 was completed Please see **Exhibit: F. Schubert Farms No. 1 Wellbore Diagram** with this report.



WELLBORE DIAGRAM

VIII. ATTACH A CONTINGENCY PLAN FOR REPORTING AND CLEAN-UP OF SPILLS OR RELEASES

H.R.C., INC. will follow NMAC 20.6.2.1203 where H.R.C.,**Inc.**

1. As soon as possible after learning of such a discharge within 24 hours will orally notify the chief of the ground water quality bureau of the department, or his counter partner in any constituent agency delegated responsibility for enforcement of these rules. HRC Inc. will notify Jim Griswold or Carl Chavez in Santa Fe, District II Hobbs of any release discharge. Information that will be reported at the time is as follows:

a. Name, address, and telephone number of the person in charge of the facility as well as the owner or operator of the facility;

b. Name and address of the facility;

c. Date and time, location, and duration of the discharge;

d. The Source and cause of discharge;

e. A description of the discharge, including its chemical composition;

f. The estimated volume of the discharge;

g. Any actions taken to mitigate immediate damage from the discharge.

H.R.C., Inc. within one week of a discharge will send written notification to the same department officials, verifying the prior oral notification and providing any appropriate additions or corrections to the information contained in the prior oral notification.

The C-141 Release Notification and Correction Action form will be used. Once mitigation of the discharge is complete form C-141 will be filled out with the information of what and how the discharge was addressed within 15 days of the discharge.

H.R.C., Inc. will seek in an effort to determine the department's views as to what further corrective actions may be necessary or appropriate to the discharge in question.

H.R.C., Inc. taking safety measures to control of any discharge. The Schubert Farms Well No. 1 has a lease operator that is on location daily and oversees the facility.

His duties are to make full walk around inspections of all connections, valves, hoses, tank levels, operating pressures, meter readings, gather loading tickets security entry cameras and reports them daily.

All tanks are set above ground level with a berm barrier holding over 133% of total tank capacity followed with a secondary barrier of 20+ mil Polly.

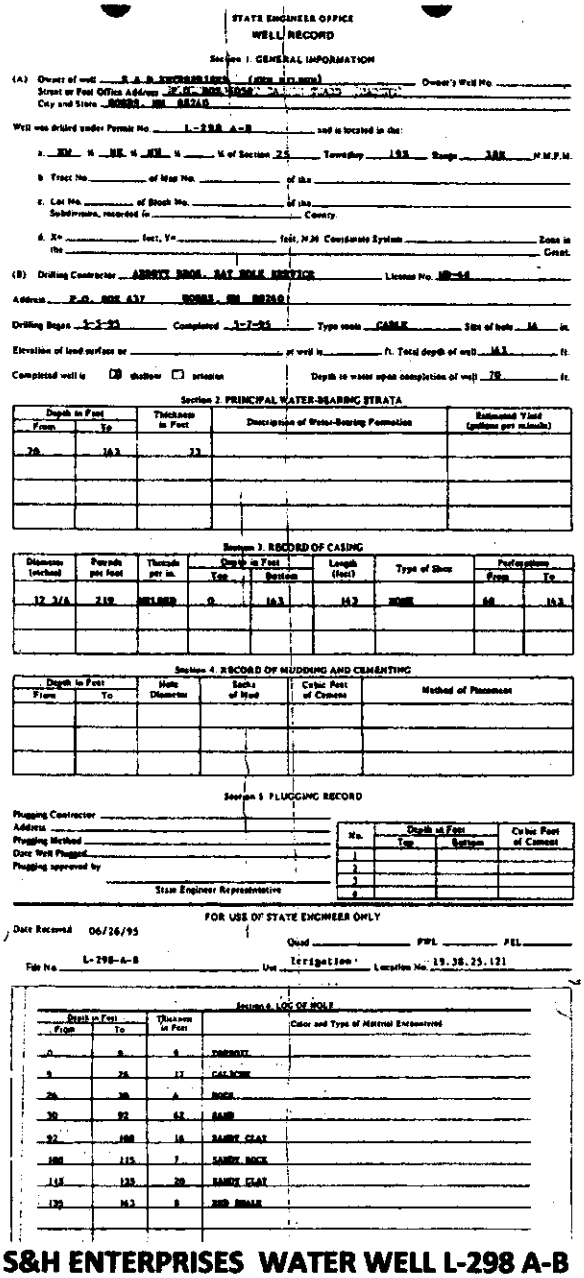
IX. ATTACH GEOLOGICAL/HYDROLOGICAL EVIDENCE DEMONSTRATING THAT BRINE EXTRACTION OPERATIONS WILL NOT ADVERSELY IMPACT FRESH WATER.

The Ogallala Aquifer formation (Phanerozoic / Cenozoic /Tertiary) is the only source of fresh water in the AOR of the Schubert Farms Well No. 1.

The S&H Enterprises water well # L-298 A-B located NW/4, NE/4, NW/4 of Sec 25, T19S, R38E drilling Lithology report showed the following:

From ft.	To ft.	Thickness	Type Material
0	9	9	Topsoil
9	26	17	Caliche
26	30	4	Rock
30	92	62	Sand
92	108	16	Sandy Clay
108	115	7	Sandy Rock
115	135	20	Sand Clay
135	143	8	Red Shale

Please find with this Report **Exhibit: G. Drilling Report of the S&H Enterprises L-298 A-B Irrigation water well.**



STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well S & H ENTERPRISES (also well name) Owner's Well No.
Street or Post Office Address P.O. BOX 1058
City and State HOBBS, NM 88240

Well was drilled under Permit No. L-298 A-B and is located in the:

a. NW ¼ NE ¼ NW ¼ ¼ of Section 25 Township 19S Range 38E N.M.P.M.

b. Tract No. of Map No. of the

c. Lot No. of Block No. of the Subdivision, recorded in County.

d. X= feet, Y= feet, N.M. Coordinate System Zone in the Const.

(B) Drilling Contractor ABBOTT BROS. RAT HOLE SERVICE License No. WD-66

Address P.O. BOX 637 HOBBS, NM 88240

Drilling Began 5-3-95 Completed 5-7-95 Type tools CABLE Size of hole 14 in.

Elevation of land surface or at well is ft. Total depth of well 143 ft.

Completed well is ☒ shallow ☐ artesian Depth to water upon completion of well 70 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
26	143	33		

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
12 3/4	219		0	143	143		68	143

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor
Address
Plugging Method
Date Well Plugged
Plugging approved by
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 06/26/95
Quad FWL FEL
File No. L-298-A-B Use Irrigation Location No. 19.38.25.121

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	9	9	TOPSOIL
9	26	17	CALICHE
26	30	4	ROCK
30	92	62	SAND
92	108	16	SANDY CLAY
108	115	7	SANDY ROCK
115	135	20	SANDY CLAY
135	143	8	RED SHALE

S&H ENTERPRISES WATER WELL L-298 A-B

Top of the water level is at 70' we have no record on the thickness of the capillary fringe. The Alluvium estimate would be 60 to 70 feet thick.

The Topo map provided in this report **Exhibit A** shows a slight declination to the southeast.

The elevation at the Schubert Farms Well No. 1 is recorded at 3581' at ground level.

Below the red bed of the Ogallala Aquifer lays the:

Triassic (Dockum),

Permian Ochoan (Dewey Lake, Rustler, Salado, Castile)

Permian Guadalupian Tansill, (Yates, Seven Rivers, Queen, Grayburg) oil bearing strata.

Pre-Ongard API 30-025-07710 UL: D Sec 25, T19S, R38E drilled in 1950 and **API 30-025-07975 UL: M SEC 19, T19S, R39E** drilled in 1944 shows a great Lithology Report of the footage being drilled Please see **Exhibit: H. & EXHIBIT: I.** at the end of this report Showing the Tops of Conformance and the Lithology.

API # 30-025-	From ft.	To ft.	Thickness	Type of material
07710	0	1650	1650	Surf sands/Red beds
	1650	1723	73	Anhydrite
	1723	2763	1040	Salado Salt

API # 30-025-	From ft.	To ft.	Thickness	Type of material
07975	0	220	220	Surf sands/shale
	220	1659	1439	Red beds
	1659	1744	85	Anhydrite
	1744	2995	1251	Salt / Anhydrite

Pre OnGuard well 30-025-07710 UL: D Sec 25, T19S, R39E Lat: 32.6367264 Long: -103.1084976 is 2941 feet to the West of the Schubert Farms Well No.1.

Pre OnGuard well 30-025-07975 UL: M Sec 19, T19S, R39E Lat: 32.6402931 Long: -103.0912857 is northeast 2,468.9 feet from the Schubert Farms Well No. 1.

Please find with this report **EXHIBIT J** an Aerial view of the location and description of the Pre Ongard wells in relation to the Schubert Farms Well No.1

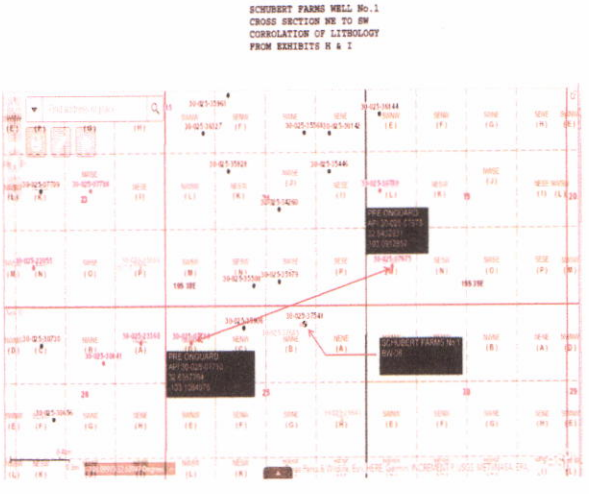


EXHIBIT J

LITHOLOGY POINTS OF CROSS SECTION

One can correlate the Pre Ongard wells API 30-025-07975 & API 30-025-07710 lithology report with Schlumberger Litho Density Compensated Neutron /HNGS log on record with the NMOCD.

Please find with this report **EXHIBIT K.** the log depicts the 1655' thickness of the roof strata above the Salado showing the thickness of

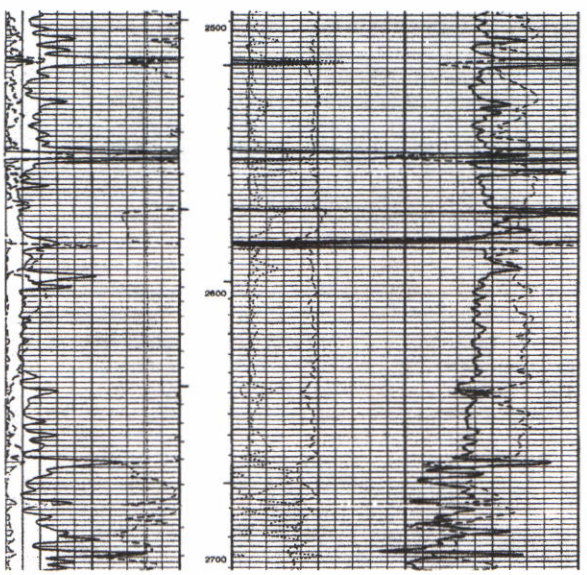
Red beds, RB and Shale, and ±160 foot Anhydrite above the shoe set at 1645 ft.

The Schubert Farms Well No. 1 CBL shows continuity between the outer casing wall and the borehole wall that provides a barrier protecting the fresh water sands.

Schubert Farms Well No. 1 is well protected that brine solution will not penetrate the Aquafer of the Ogallala.

NM OCD has on file the CBL log that shows continuity with the outer walls of the casing and the borehole wall.

Pease find with this report **EXIHIBIT L.** The Salado GR / Litho Density Compensated Neutron log showing the Halite stringers to the top of the Yates formation est. at 2855'.



As flooding the slope dip will run off to the southeast. Brine tanks on the Schubert Farms Well No.- 1 as talked about earlier in this report has a berm and secondary containment to hold 133% of total capacity. Third party trucking empties out the berm containment when it fills with rain water and disposes it at a registered NMOCD approved SWD.

No lakes, arroyos, or streams are in the AOR of the Schubert Farms Well No. 1 the area is of Agriculture land farming with cattle in certain areas to the South with some production to the West of the Schubert Farms Well No. 1. **PLEASE SEE EXHIBIT R AIRIAL VEIW OF SCHUBERT FARMS WELL No. 1 AOR.**

AIRIAL VEIW OF SCHUBERT FARMS WELL No. 1 AOR.

X. Attach other information as necessary to demonstrate compliance with any other OCD rules, regulations and / or orders

1. Section 2. A Quarterly analysis of injected fluids and brine. Pursuant to 20.6.2.5207C

Tabulated Quarterly analysis last five years Fresh Water Schubert Farms Well No. 1 20.6.2.5207C (1)

Schubert Farms Well No. 1 was placed in operation in March of 2017 below are the Water Analysis during this period of time.

Mo. / Year	pH	TDS	CL	Na	SG
2017					
JAN					
APR	7.32	1870	510	228	
SEP					
NOV	7.98	896	224	130	
DEC.					
2018					
JAN.					
MARCH					
JUNE					
SEP					
DEC.					

Tabulated Quarterly analysis last five years Brine Water Schubert Farms Well No. 1 20.6.2.5207C (1)

Mo. / Year	pH	TDS	CL	Na	SG
2017					
JAN.					
APR	6.85	198000	122000	80100	
JUNE					
SEP					
NOV	6.96	266000	162000	91100	
DEC.					
2018					
JAN.					
MARCH					
JUNE					
SEP					
DEC.					

Tabulated Quarterly analysis last five years Monitor Fresh Water Well Schubert 7 Well No. 1 20.6.2.5207C (1)

Mo. / Year	pH	TDS	CL	Na	SG
2017					
JAN.					
MARCH					
APR	7.58	1090	316	131	
JUNE					
SEP					
NOV	7.60	1180	356	125	
DEC.					
2018					
JAN.					
MARCH					
JUNE					
SEP					
DEC.					

20.6.2.5207C (2) Monitoring injection volumes, Brine, Fresh Water and pressures.

20.6.2.5207C (2) Monitoring injection volumes, Brine, Fresh Water and pressures.

2017 REPORT OF BRINE & F / W

Month	Prod. psig	Brine Prod. by meter	Injection psig	F/W inj. by meter
JAN	-	-	-	-
FEB	-	-	-	-
MAR	70	13011	230	12833
APR	70	5636	230	5238
MAY	90	11060	270	10143
JUN	100	9831	270	9902
JUL	85	14400	270	14362
AUG	35	11962	250	10340
SEP	40	20945	245	21183
OCT	40	21988	250	20795
NOV	40	19764	250	19522
DEC	20	24921	230	24360
YEAR TOTAL	**153,518**			**148,678**

2018 REPORT OF BRINE & F / W

Month	Prod. psig	Brine Prod. by meter	Injection psig	F/W inj. by meter
JAN	25	25912	245	25360
FEB	35	21338	250	21124
MAR				
APR				
MAY				
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

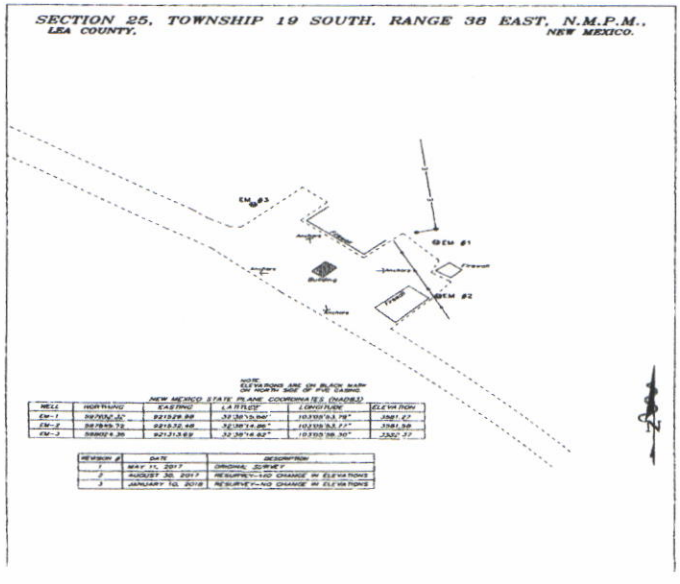
2.B. SOLUTION CAVERN MONITORING

PROGRAM

1. Surface Subsidence Monitoring Plan

H.R.C., Inc. has placed in action the Monitoring Plan on May 11, 2017 a survey was conducted where three elevation markers were placed by Basin Surveys Gary L. Jones. Total of three surveys have been conducted the last one on record was on January 10, 2018. There were no changes in Elevation that has occurred in this time period.

Because this is a live document H.R.C. Inc. will report to the Department of the next survey as Basin Surveys completes them. Please find at the end of this report **Exhibit: M. Basin Surveys Elevation Markers**



Basin Surveys Plat.

2.

B.2. SOLUTION CAVERN CHARACTERIZATION PROGRAM

Schubert Farms Well No.1 has extracted a total of 153,518 bbl. of brine from March 2017 thru the end of December 2017 calculating cone volume of ft³ this shows the base diameter to be 128.8' and the height of 54' Please see **EXHIBIT: N. CAVERN CHARACTERIZATION PLAN** at the end of this **report.**

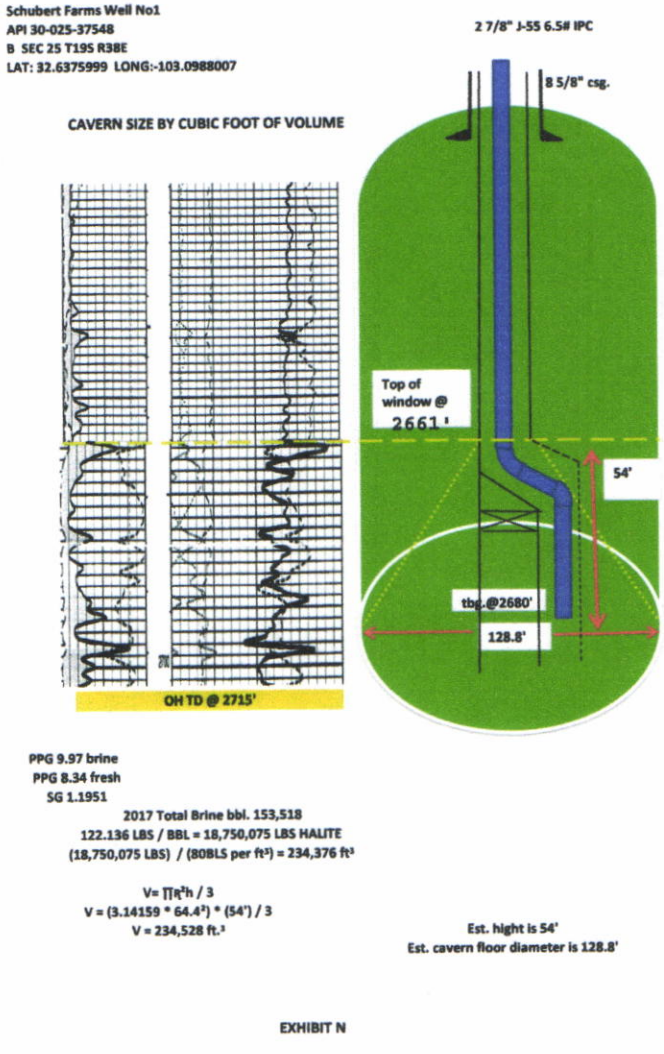


EXHIBIT N

CAVERN CHARACTERIZATION PLAN

2.B.3 ANNUAL CERTIFICATION

H.R.C., Inc. has demonstrated with the Surface Subsidence Monitoring Plan that no evidence of elevation markers to have changed.

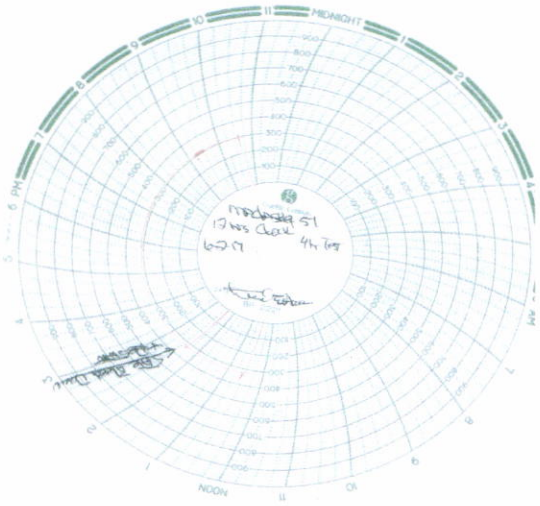
Please find with this report **EXHIBIT K.** the log depicts the 1502' thickness of the roof strata above the Salado to the top of the Red Bed. showing the thickness of 1417'± RB / Shale, and 85' ± Anhydrite. Schubert Farms Well No. 1 is well protected that brine solution will not penetrate the Aquafer of the Ogallala.

Pease find with this report **EXIHIBIT L.** The Salado GR / Neutron log showing the Halite stringers to the top of the Yates formation. The Strata demonstrates strong shale beds and anhydrite beds supporting the solution mining within the Salado formation.

Schubert Farms Well No. 1 conducted a formation MIT on February 23, 2017 pressured formation to 300 psi ran a chart and tested okay. Well was kept shut in until 11/22/16 where a chart recorder was hooked up to the annulus and started a four hour formation test witnessed by OCD Officer Kerry Fortner and passed showing that the formation is sound and intact.

Please find **Exhibit O. Letter OCD evaluation passed MIT, Letter from Lynx Petroleum Consultants, Inc. explanation of new Halite Beds saturation absorption. Subsequent 6-2-2017 MIT test, Chart of the recording**

pressure and Chart Calibration Certificate. Included with this report.



6-2-17 MIT Chart

2.H.3. ENVIROMENTAL MONITORING

H.R.C., INC. is incompliance with 20.6.2.3107B NMAC or EPA QA / QC Standards. Cardinal Laboratories services are used on all analytical testing their Accreditations through the State of Colorado Department of Public Health and accreditation applies to public drinking water matrices of the State of Colorado and New Mexico **Please find at the end of this report EXHIBIT: P. & Q. Cardinal Laboratories water Analysis for the Schubert Farms Well No. 1.**

2. J ANNUAL REPORTING

H.R.C., Inc. has submitted its Schubert Farms Well No. 1 annual 2017 report to the NM OCD and has been posted on the website for review complying with 20.6.2.3107 NMAC.

3.C CONTINUOUS MONITORING DEVICES

Schubert Farms Well No. 1 has complied with the monitoring of pressure, flow rate, Volume flow, and pressure on the annulus.

Methodology of the monitoring are as follows an oil fluid gauge is placed at the annulus port where the operator reads and records daily on a daily sheet of the pressure each day.

Tubing has a Cross connection above the master valve and the upper port is supported with an oil fluid gauge monitoring the fluid tubing pressure of the fluid heading to the BHA. Pressures are recorded onto the lease operator's daily log sheet.

Brine solution has a meter that registers bbl amounts. As it leaves the annulus port then through a connection hose it enters a ridged line where the meter is housed in the middle then it leaves and is tied to a 4" SDR 11 poly line to the fill tank. The lease operator daily records the meter reading and records the reading onto his daily log sheet.

Fresh water is metered before entering the suction side of the PD pump it enters a ridged line where the meter is housed in the middle as it leaves the ridged line it is connected with a flex hose and is tied into the suction side of the Grundfos CR 32 pump. The lease

operator records the meter reading and enters the meter reading into his daily sheet.

All tanks, connections, valves, checks valves are inspected daily and most days two or three times a day.

Head switches control the water level and set as to not over fill the tanks. Added protection is a radio frequency communicating with the front facility shutting down the system if the fluid levels start to reach a critical level. Please see **EXHIBIT: C. Facility Schematic** for your review.

3.A.3. INITIAL HYDROSTATIC TESTING OF PIPELINE HYDROSTATIC TEST REPORT WITH "AS BUILT" PIPELINE TRANSSECT AND ASSOCIATED CONSTRUCTION INFORMATION

EXHIBIT: C. Facility Schematic demonstrates the plumbing needs for the Schubert Farms Well No. 1 facility. **Please find EXHIBIT: R TABULATED OF CONNECTIONS AND PIPE SPECS** at the end of this report.

SCHUBERT FARMS FACILITY
TABULATED SHEET OF CONNECTIONS AND PIPE

CONNECTION TYPE	SIZE	MODEL	CONSTRUTION	PORT	PSI RATED AT
BALON FLOATING VALVES	4"X 3" X 4"	48-532-SE	CARBON STEEL	3"	750
BALON FLOATING VALVES	3" X 3" X 3"	3F-542-SE	CARBON STEEL	3"	750
BALON FLOATING VALVES	2" X 2" X 2"	2F-532-SE	CARBON STEEL	2"	750
X HEAVY 2" ELL IPC	2.375"	FIG.No. 02001	CARBON STEEL	2"	2000
X HEAVY 3" ELL IPC	3.375"	FIG.No. 02001	CARBON STEEL	3"	2000
X HEAVY 4" ELL IPC	4.188"	FIG.No. 02001	CARBON STEEL	4"	2000
X HEAVY 2" COLLAR IPC	2.375"	ASTM SA106N	CARBON STEEL	2"	3000
X HEAVY 3" COLLAR IPC	3.375"	ASTM SA106N	CARBON STEEL	3"	3000
X HEAVY 4" COLLAR IPC	4.188"	ASTM SA106N	CARBON STEEL	4"	3000
X HEAVY 2" TEE IPC	2.375"	ASTM SA106N	CARBON STEEL	2"	2000
X HEAVY 3" TEE IPC	3.375"	ASTM SA106N	CARBON STEEL	3"	2000
X HEAVY 4" TEE IPC	4.188"	ASTM SA106N	CARBON STEEL	4"	2000
X HEAVY 2" NIPPLE IPC	2.375"	A106 Sch. 80	CARBON STEEL	2"	2000
X HEAVY 3" NIPPLE IPC	3.375"	A106 Sch. 80	CARBON STEEL	3"	2000
X HEAVY 4" NIPPLE IPC	4.188"	A106 Sch. 80	CARBON STEEL	4"	2000
X HEAVY 1 1/2" X 2" SWEDGE IPC	1.9" x 2.375"	X H	CARBON STEEL	1 1/2" X 2"	2000
X HEAVY 2" X 3" SWEDGE IPC	2.375" X 3.5"	X H	CARBON STEEL	2" X 3"	2000
X HEAVY 3" X 4" SWEDGE IPC	3.5" X 4 1/2"	XH	CARBON STEEL	3" X 4"	2000
X HEAVY 3" CROSS TEE IPC	3.75"	ASTM SA106N	CARBON STEEL	3"	3000
2" VICTAULIC CONNECTOR	2.375"	177N	CARBON STEEL	2"	1000
4" VICTAULIC CONNECTOR	4.188"	177N	CARBON STEEL	4"	1000
2" SDR 11 HDPE POLY LINE	2.375	SDR 11 HDPE	Polyethylene	2"	160
3" SDE 11 HDPE POLY LINE	3.5	SDR 11 HDPE	Polyethylene	3"	160
4" SDR 11 HDPE POLY LINE	4.5	SDR 11 HDPE	Polyethylene	4"	160
4" SDR 11 TRASDUCER	4.5	SDR 11 HDPE	STEEL / SDR11	4"	160
2" BRADED HOSE	2.375"	PTFE	RUBBER /STEEL	2"	UP TO 5000
3" BRADED HOSE	3.375"	PTFE	RUBBER /STEEL	3"	UP TO 5000
4" BRADED HOSE	4.188"	PTFE	RUBBER /STEEL	4"	UP TO 5000

Safety measures for loss of pressure and critical pressures at the Schubert Farms Well No. 1 facility are as follows: The Grunsfos HP CR-32 Stage pump is equipped with a Murphy Control Switch that is set at a low psig level of 50# and a shutdown critical level of 350# located behind the pump.

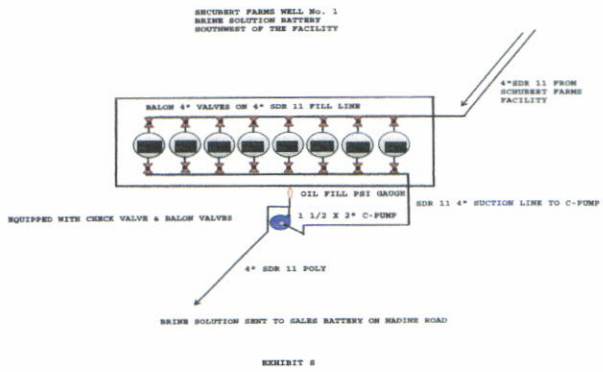
As stated in this report the Operator checks each day the psi gauges that are mounted on top of the tubing and that of from the annulus port. It is recorded in his daily log of operations. A complete walk around visual is done daily for any leaks.

Hydrostatic height psi at 15.5 foot fill line to the brine tank has a constant psi of 8.06 psi on the line on the ground. Fresh water at 15.5 foot has a positive psi on the line on the ground of 6.714 psi.

3.K FLUID INJECTION AND BRINE PRODUCTION VOLUMES AND PRESURES

Please see **Page 12** for the recorded volumes for 2017 and 2018 sent to the Department for review.

The Schubert Farms Well No. 1 facility sends its quality brine solution to a holding battery southwest of the facility then it is transferred to the sales facility on Nadine Road. **Please see EXHIBIT: S. BRINE SOLUTION BATTERY SOUTHWEST OF FACILITY** of Schubert Farms facility.



Schubert Farms Brine Holding Tank Battery Southwest of Schubert Farms Facility.

The holding tanks supply the main sales tanks at the Sales location on Nadine Road. The tanks are filled to a maximum level of 10 feet with the eight tanks this battery holds 2640 bbl. when full. The supply and demand at the sales facility will determines working levels at this battery.

Brine effluents from the Schubert Farms 1 facility are transported through a polyline and enters this battery through the front East side of the sales valve header. A four inch polyline is connected to each tank and equalizes the volume within each tank.

Four inch ball valves are mated to the front of each sales port 12" from the base of each 500 bbl. fiberglass tank.

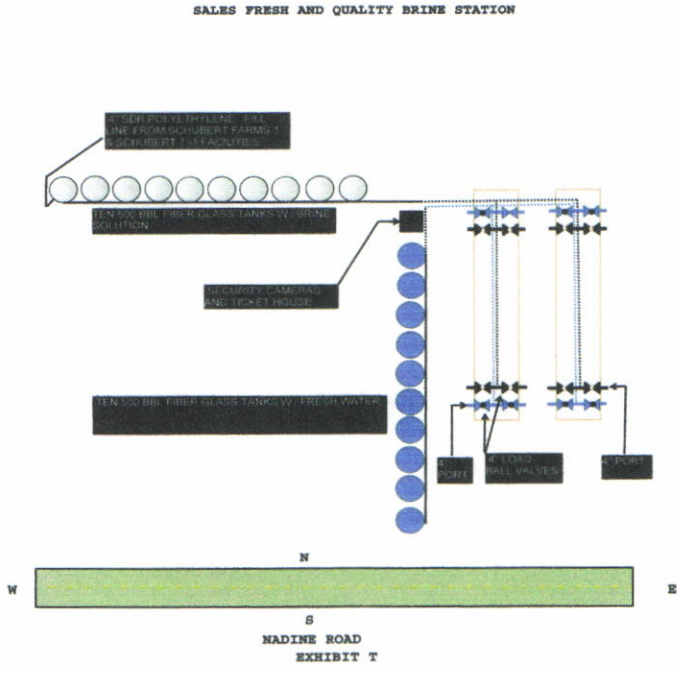
Located on the back of the tanks are 3" drain ports at the bottom of each tank they are equipped each equipped with Balon ball valves and are tied all together with a SDR 11 polyline using poly heat welded tees.

This header is the supply to the C-pump that is controlled with a head switch that communicates with the Sales Facility. During sales of Brine at the Sales site.

The Sales site on Nadine road has two sets of tanks one is the sales brine tanks and the other is the Fresh water sales tanks. Brine is transported from the Schubert Farms holding tanks and also the Schubert 7 facility.

Brine enters the far West tank where all tanks are equalized together. Each 500 bbl. fiberglass tanks has a control valve in front of each tank. All valves are mated together with a four inch poly line that supplies the on loading brine valves at the loading station.

The fresh water tanks are also mated together from the sales port of each tank and supplies the needed fresh water to the on loading fresh water station for the trucks. Please see **Exhibit: T. Isotope of Sales Facility.**



SALES FACILITY ON NADINE ROAD

SUMMARY

Schubert Farms well No. 1 is currently solution mining below the higher density of Halite beds that are above the point of mining.

With this new well will bring much needed information and knowledge to the solution mining methodology of injecting down tubing and recovering brine through the annulus. 204 feet of net pay lies above the window at 2661 feet.

The upper Halite beds will be non-disturbed until the need to cut another window above in the far future to continue solution mining.

It adds food for thought for future Brine wells in using this methodology of mining halite by allowing the preservation of the upper strata layers of the Salado Formation from saturation as opposed to open hole mining also it reasons in the physics of adding stability to the roof of the cavern.

David H. Alvarado

ALVARADO & SONS CONSULTING

Office: 575 -365-2449

Cell: 575 513-1238

davidal00136@gmail.com

Schubert Farms Well No. 1
API 30-025-37548
LAT:32.6375999 LONG:-103.0988007
NW/4 NE/4 UNIT B, SEC25,T19S,R38E
330 FNL, 1650 FEL
LEA COUNTY NEW MEXICO
GIS TOPO

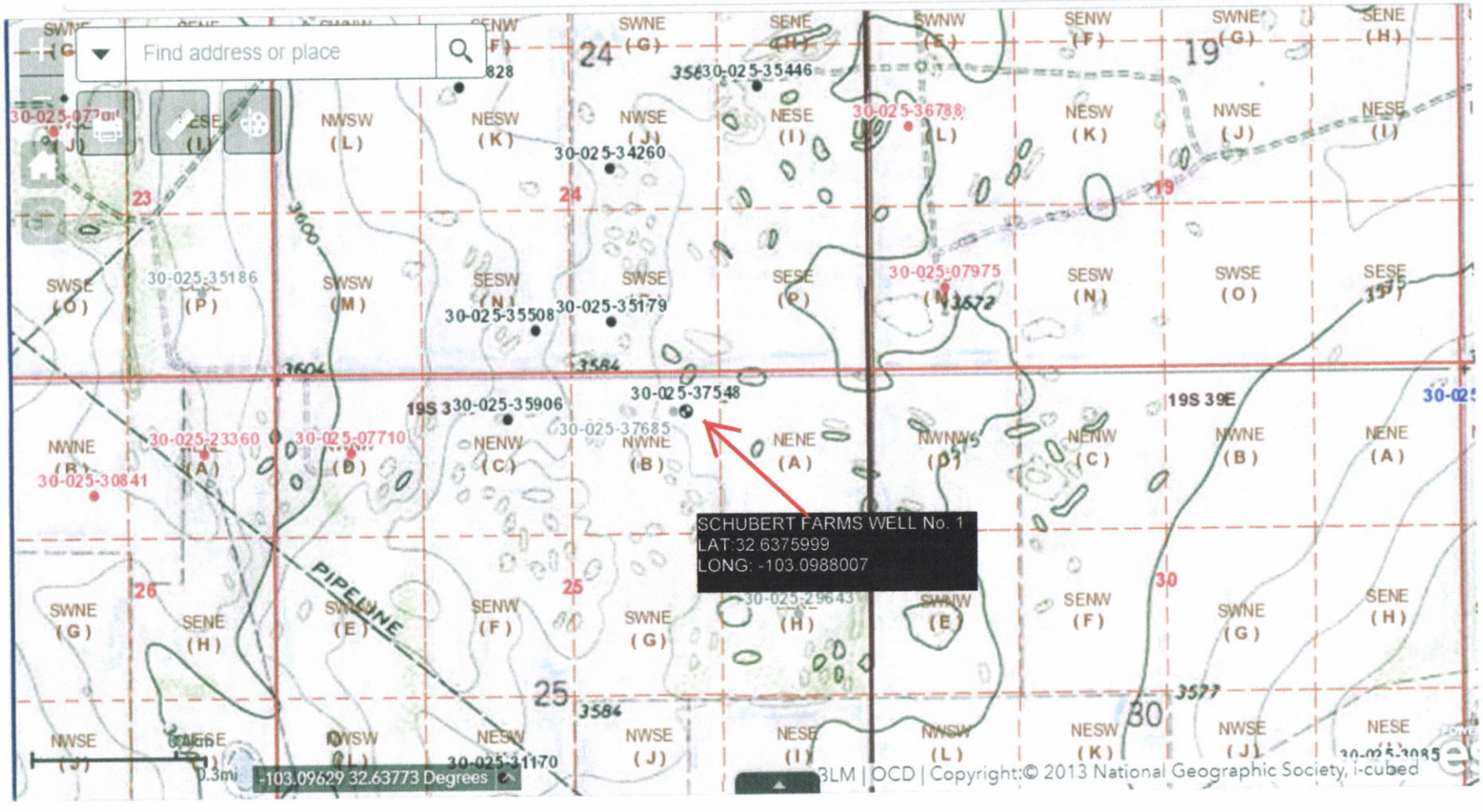


EXHIBIT A

Schubert Farms Well No. 1
API # 30-025-37548
NMSLO Map of GARY SCHUBERT Fee Property
LAT: 32.6375999
LONG:-103.0988007

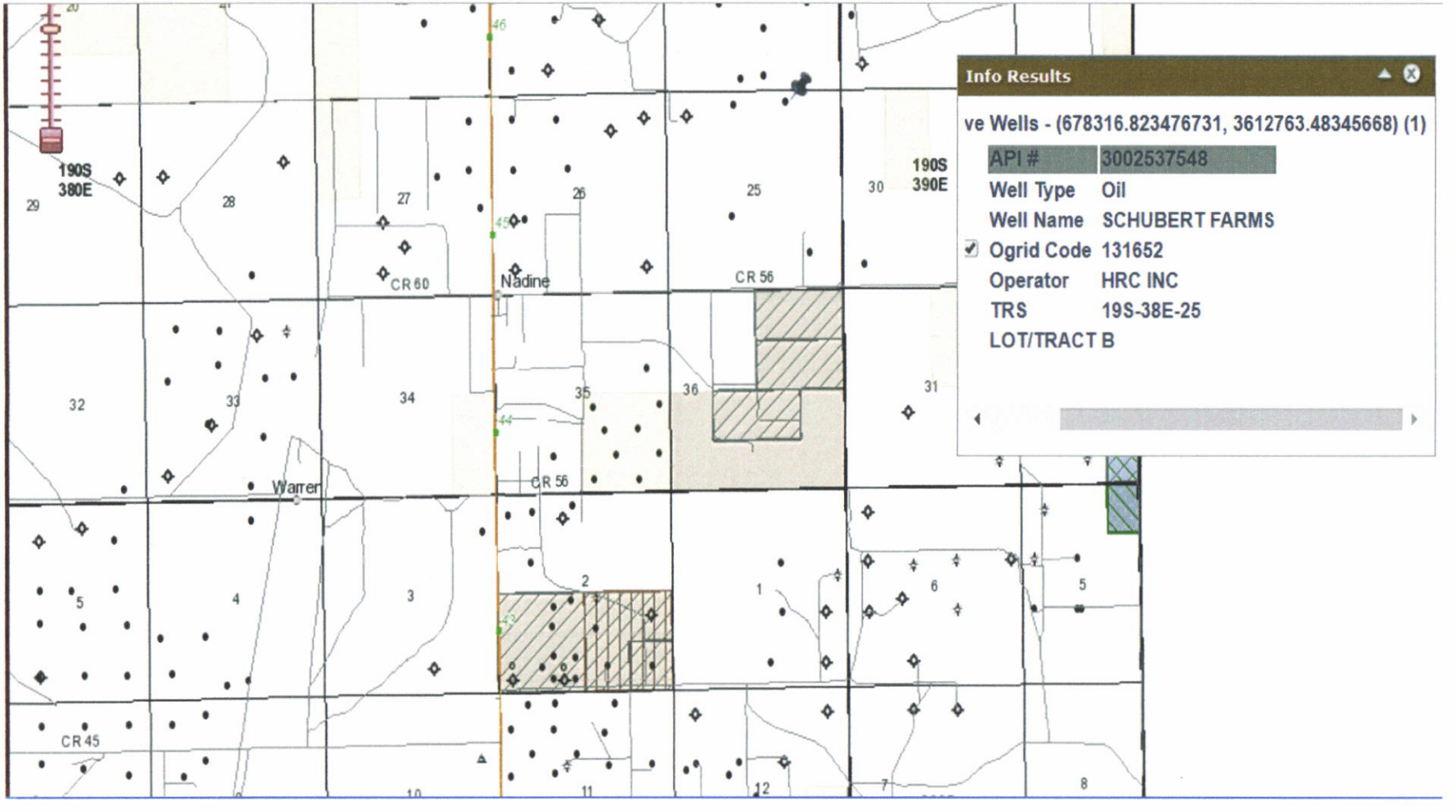


EXHIBIT B

SCHUBERT FARMS No. 1
API # 30-025-37548
UL: B, SEC 25, T19S, R34E

FACILITY ISOTOPE

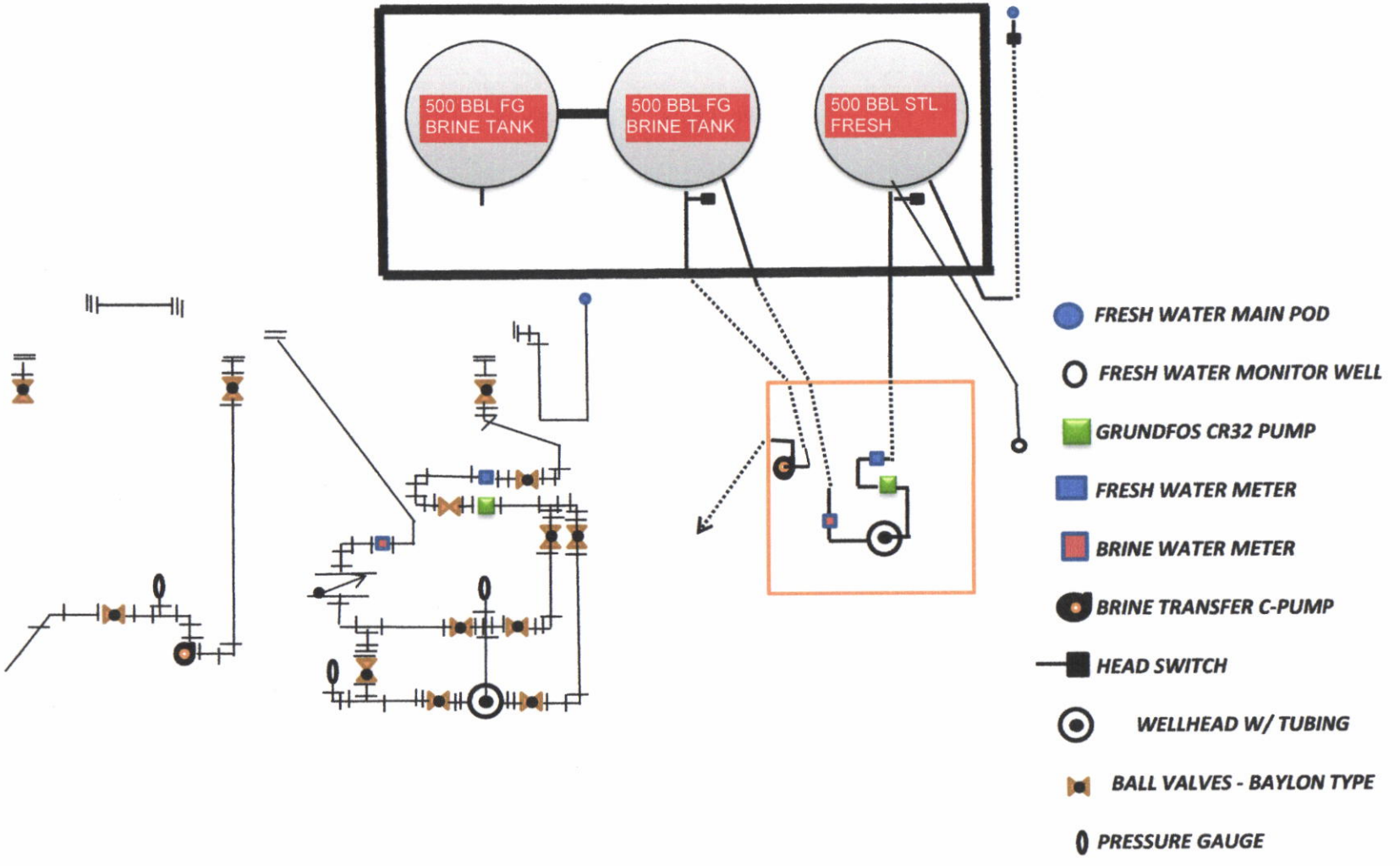


EXHIBIT C

COMMENCE DRILLING OPERATION

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
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
May 27, 2004

WELL API 30-025-37548

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No. N/A

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: Schubert Farms

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

8. Well Number 1

2. Name of Operator: Trilogy Operating, Inc.

9. OGRID Number 21602

3. Address of Operator: P.O. Box 7606 Midland, Tx. 79708

10. Pool name or Wildcat: Nadine; Drinkard-Abo

4. Well Location
Unit Letter B : 330 feet from the North line and 1650 feet from the East line
Section 19 25 Township 19S Range 38E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3575 GR

Pit or Below-grade Tank Application ☐ or Closure ☐

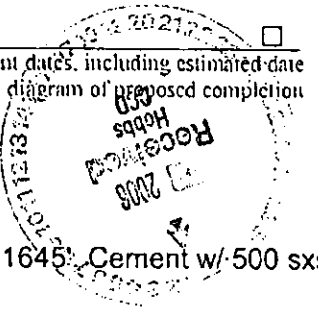
Pit type_____ Depth to Groundwater_____ Distance from nearest fresh water well_____ Distance from nearest surface water_____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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	☐		
OTHER:	☐			OTHER:			☐

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.



12/2/05 - MIRU JW Drilling Rig #6
12/3/05 - Spud well
12/4/05 - Begin drilling 12 1/4 hole w/ fresh water
12/5/05 - TD surface. RIH w/ 39 jts - 8 5/8" - 24#, J55 csg to a setting depth of 1645'. Cement w/ 500 sxs cla: C, tail w/ 200 sxs class C, circulate 129 sxs to pit
12/6/05 - Begin drilling 7 7/8 hole w/ Brine Water
1/3/06 - 6442' DP parts order out fishing tools
1/4/06 -1/15/06 - Fishing for DP
1/16/06 - Abandon DCs @5506 per CS
1/17/06 - Run in hole w/ 155 jts 5 1/2" 17# N80 casing.Cement w/ lead - 425 sx class C, tail w/ 1160 sx class C, circulated 72 sx cement to surface. Due to loss of hole we request the well be re-permitted for the San Andres and the Seven Rivers. Plugback TD @ 5460'
End of report

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE _____ TITLE Marketing Director DATE 1/31/06

Type or print name Chris Smith E-mail address: csmith1@lx.net Telephone No. 432 686-2027

For State Use Only

APPROVED BY: _____ TITLE OC DISTRICT SUPERVISOR/GENERAL MANAGER DATE FEB 07 2006

Conditions of Approval (if any):

EXHIBIT D

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

Change of Operator

Form C-145
August 1, 2011
Permit 216806

Previous Operator Information

OGRID: 21602
Name: TRILOGY OPERATING INC
Address: P. O. Box 7606
City, State, Zip: Midland, TX 79708

New Operator Information

Effective Date: Effective on the date of approval by the OCD
OGRID: 131652
Name: HRC INC
Address: P. O. Box 1606
City, State, Zip: Hobbs, NM 88241

I hereby certify that the rules of the Oil Conservation Division ("OCD") have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Additionally, by signing below, HRC INC certifies that it has read and understands the following synopsis of applicable rules.

PREVIOUS OPERATOR certifies that all below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells being transferred are either (1) in compliance with 19.15.17 NMAC, (2) have been closed pursuant to 19.15.17.13 NMAC or (3) have been retrofitted to comply with Paragraphs 1 through 4 of 19.15.17.11(I) NMAC.

HRC INC understands that the OCD's approval of this operator change:

1. constitutes approval of the transfer of the permit for any permitted pit, below-grade tank or closed-loop system associated with the selected wells; and
2. constitutes approval of the transfer of any below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells, regardless of whether the transferor has disclosed the existence of those below-grade tanks to the transferee or to the OCD, and regardless of whether the below-grade tanks are in compliance with 19.15.17 NMAC.

Previous Operator

Signature: [illegible]

Printed Name: [illegible]

Title: [illegible]

Date: [illegible] Phone:

New Operator

Signature: [illegible]

Printed Name: GARY M. SCHUBERT

Title: PRES.

Date: 4/5/16 Phone:

NMOCD Approval

Electronic Signature: Paul Kautz, District 1

Date: June 13, 2016

H.R.C., INC.
SCHUBERT FARMS WELL No. 1 BW-36
330 FNL, 1650 FEL, Unit (B), Sec 25, T19S, R38E
API # 30-025-37548
LEA COUNTY NM

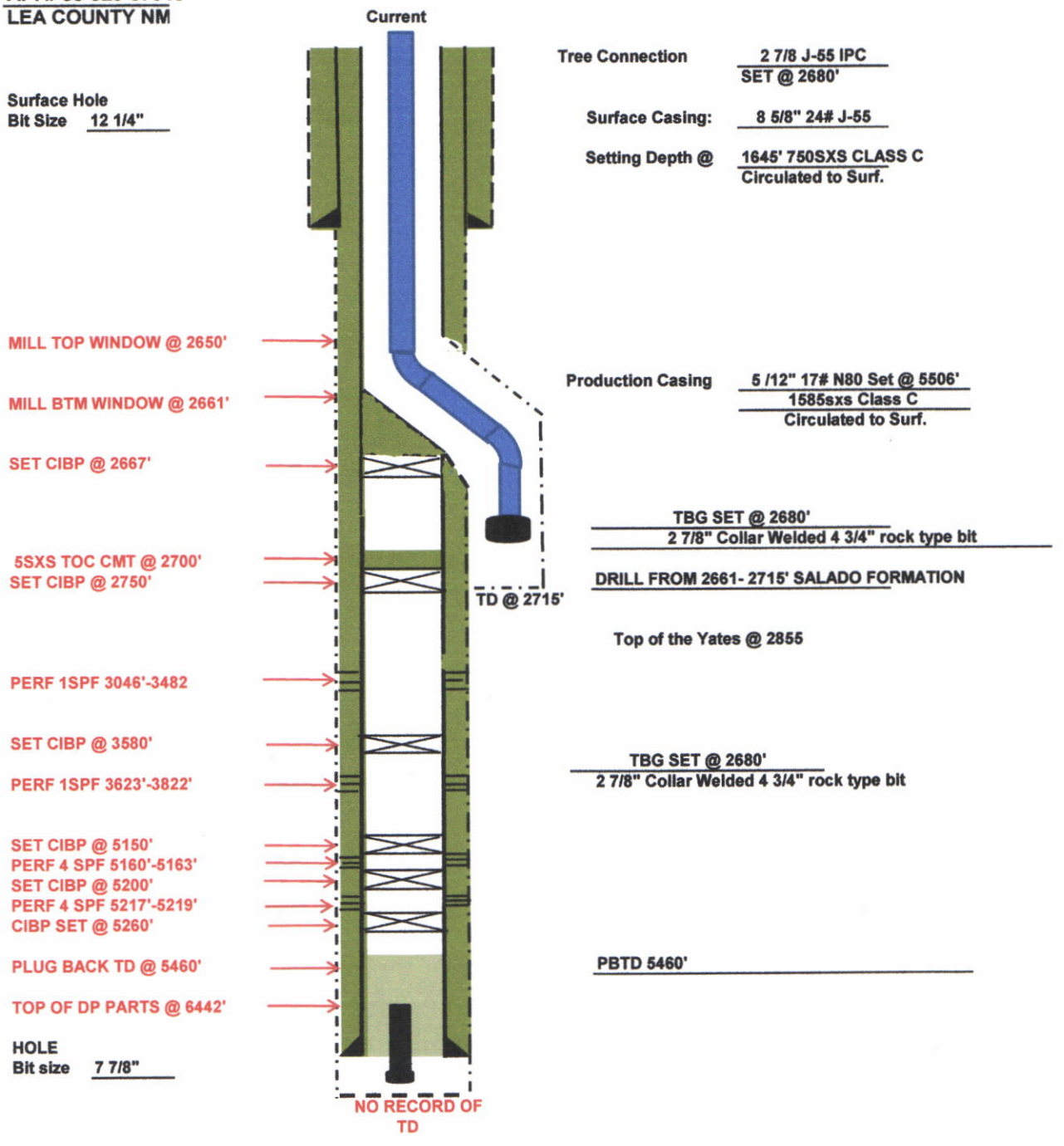


EXHIBIT F

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well S & H ENTERPRISES (KEN RITLBIN) Owner's Well No. _____
Street or Post Office Address P.O. BOX 16056
City and State HOBBS, NM 88240

Well was drilled under Permit No. L-298 A-B and is located in the:

a. NW ¼ NE ¼ NW ¼ ¼ of Section 25 Township 19S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor ABBOTT BROS. RAT HOLE SERVICE License No. WD-46

Address P.O. BOX 637 HOBBS, NM 88240

Drilling Began 5-5-95 Completed 5-7-95 Type tools CABLE Size of hole 14 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 143 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 70 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
70	143	73		

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
12 3/4	219	WELDED	0	143	143	NONE	68	143

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 06/26/95 Quad _____ FWL _____ FSL _____

File No. L-298-A-B Use Irrigation Location No. 19.38.25.121

EXHIBIT G

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	9	9	TOPSOIL
9	26	17	CALICHE
26	30	4	ROCK
30	92	62	SAND
92	108	16	SANDY CLAY
108	115	7	SANDY ROCK
115	135	20	SANDY CLAY
135	143	8	RED SHALE
			EXHIBIT G

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Floyd Allsett
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 6 need be completed.

FORM C-105

APT 30-025-07710
UL: D 25 T19S R38E
2,941.3' From BW-36
32.6367264 -103.1084976

RECEIVED [illegible] 1950 OIL CONSERVATION COMMISSION HOBBS OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

[illegible — printed mailing and filing instructions; ends "... FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT."]

AREA 640 ACRES
LOCATE WELL CORRECTLY

Stanolind Oil and Gas Company; P. O. Box "F"; Hobbs, New Mexico
Company or Operator / Address

Leonard Leech "B" Well No. 1 in NW/4 of Sec. 25, T. 19-S
Lease

R. 38-E, N. M. P. M., Nadine Field, Lea County.

Well is 660 feet south of the North line and 660 feet [E/W] of the W line of Section 25

If State land the oil and gas lease is No. ____ Assignment No. ____

If patented land the owner is Leonard Leech, Address Hobbs, New Mexico

If Government land the permittee is ____, Address ____

The Lessee is Stanolind Oil and Gas Company, Address Box 591, Tulsa, Okla.

Drilling commenced January 28, 1950 Drilling was completed (See Reverse Side) May 31, 1950

Name of drilling contractor M. J. Delaney, Address 512 Continental Bldg. Dallas, Texas

Elevation above sea level at top of casing 3600 feet.

The information given is to be kept confidential until Not confidential 19__

OIL SANDS OR ZONES

No. 1, from None to ____ No. 4, from ____ to ____
No. 2, from ____ to ____ No. 5, from ____ to ____
No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from 6990 to 7040 feet. Swabbed 28 BW in 14 hrs.
No. 2, from 7060 to 7080 feet. " 188 BW in 24 hrs.
No. 3, from ____ to ____ feet.
No. 4, from ____ to ____ feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
8-5/8"	32#	8-V		1675(x)	Hall.				Surface
5-1/2"	15&17#	8-R	Spang	7102(y)	"		6990	7040	Oil String
							7060	7080	

(x) Left in hole.
(y) 5009' of 5½" casing was pulled when abandoning well.

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
12-1/4	8-5/8	1688	1000 sx.	Plug	10.0#/gal.	
2-3/4	5-1/2	7114	200 sx	Plug	10.2	

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth Set ____
Adapters—Material ____ Size ____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		15% Reg. Acid	1500 G.	4-29-50	6990-7040'	
		15% Reg. Acid	1500 G.	5-7-50	7060-7080'	

Results of shooting or chemical treatment Both intervals produced 100 % water on test after recovering all load oil and acid residue.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from Surface feet to Total Depth feet, and from ____ feet to ____ feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

PRODUCTION

Plugging and Abandoning operations completed (See Reverse Side*) May 31, 1950

The production of the first 24 hours was 188 barrels of fluid of which 0 % was oil; 0 % emulsion; 100 % water; and 0 % sediment. Gravity, Be ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. Not measured

EMPLOYEES

R. J. Almond, Driller; V. L. Mahaffey, Driller
A. G. Norwood, Driller; E. C. Smith, Tool Pusher, Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 8th day of August, 1950

[signature]

Hobbs, New Mexico - August 8, 1950
Place / Date

Name [signature]

Position Field Engineer

Stanolind Oil and Gas Company

EXHIBIT H

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION.
Surface	1650	1650	Surface sands and red beds.
1650	1723	73	Anhydrite.
1723	2763	1040	Salado salt.
2763	2886	123	Anhydrite.
2886	3805	919	Sand, anhydrite, and lime.
3805	4345	540	Sand and sandy dolomite.
4345	5588	1243	Dolomite and lime.
5588	6645	1057	Dolomite.
6645	7610	965	Dolomite and lime.

FORMATION TOPS

Elevation	3600'
Top Anhydrite	1650'
Top Salt	1723'
Base Salt	2763'
Top Yates	2886'
Top Queens	3805'
Top San Andres	4345'
Top Glorieta	5588'
Top Tubbs	6645'
Top Drinkard	7300' (Est)

DRILL STEM TESTS

Test Number	Interval	Results
1	3785-3868'	Tool open one hour. Weak blow of air for 22 minutes and died. Recovered 30' drlg. mud. Flowing and 15-minute shut-in B.H. pressures were zero.
2	6755-6862'	Tool open one hour. Weak blow air 50 min. and died. Recovered 30' drilling mud. Flowing and 15-minute shut-in B.H. pressures were zero.
3	6985-7090'	Tool open 4 hours. Strong blow air at beginning to weak blow at end of test. Recovered 180' oil and gas cut mud below circulating sub in drill pipe. Flowing bottom hole pressure - 125 psi. 15-minute shut-in pressure - zero.
4	7070-7105'	Tool open 6 hours. Strong blow air immediately to weak blow at end of test. Recovered 180' salt water below circulating sub in drill pipe. Flowing bottom hole pressure - 550#. 30-minute shut-in bottom hole pressure - 2000 psi.
5	7370-7500'	Tool open 3 hours. Medium blow air immediately to weak blow at end of test. Recovered 120' slightly gas cut mud. Flowing and 15-minute shut-in bottom hole pressures were zero.
6	7490-7605'	Tool open one hour. Very weak blow of air for 12 minutes and died. Recovered 60' very slightly gas cut mud. Flowing and 15-minute shut-in bottom hole pressures were zero.

*The well was drilled to 7610' T.D. in April, 1950. Drinkard showed non-commercial production from 7300-7600'. Set 5-1/2" casing at 7114', perforated 6990-7040' and acidized with 1,500 gallons acid. Swabbed 28 barrels water, no oil in 14 hours. Perforated 7060-7080' and acidized with 1,500 gallons acid. Swabbed 188 barrels water, no oil in 24 hours. No shallow pays were encountered while drilling.

5009' of 5-1/2" casing was recovered and hole plugged and abandoned according to N.M.O.C.C. Regulations May 31, 1950.

EXHIBIT H

API 30-025-07975
UL: M 19 19S 39E
2,468.9' From BW-36
32.6402931 -103.0912857

DUPLICATE

FORM C-105

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

RECEIVED NOV 3 1975

WELL RECORD

AREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Stanolind Oil & Gas Company — Box F, Hobbs, New Mexico
Company or Operator — Address

Odes James Well No. 1 in SW/4 of Sec. 19, T. 19-S, R. 39-E, N. M. P. M., Wildcat Field, Lea County.

Well is 660 feet [illegible] the [illegible] line and 660 feet [illegible] of the [illegible] line of Sec. 19

If State land the oil and gas lease is No. ______ Assignment No. ______

If patented land the owner is O. E. James, Estate Address ______

If Government land the permittee is ______ Address ______

The Lessee is ______ Address ______

Drilling commenced November 6 19 44 Drilling was completed October 27 19 45

Name of drilling contractor J. P. Porcelli & Noble Drlg. Co. Address ______

Elevation above sea level at top of casing [illegible] feet.

The information given is to be kept confidential until Not confidential 19__

OIL SANDS OR ZONES

No. 1, from 4430 to 4600 No. 4, from 7476 to 7518
No. 2, from 5510 to 7120 No. 5, from ______ to ______
No. 3, from 6980 to 7120 No. 6, from ______ to ______

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ______ to ______ feet. ______
No. 2, from ______ to ______ feet. ______
No. 3, from ______ to ______ feet. ______
No. 4, from ______ to ______ feet. ______

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
13-3/8	48#	8	SS	265	Baker				Surface String
8-5/8	32#	"	"	3184	Larkin				Salt "
5½"	17#	"	"	7689	"				Oil "

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17"	13-3/8	265	150	Halliburton		
11"	8-5/8	3184	400	"		
7⅞"	5½"	7689	100	"		

PLUGS AND ADAPTERS

Heaving plug—Material ______ Length ______ Depth Set ______
Adapters—Material ______ Size ______

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		Dowell XX	2000	8-8-45	7689-7938	
		SNG	310 qts.	8-11-45	7790-7923	7100

Results of shooting or chemical treatment No production of oil, water, or gas.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.
(See Reverse Side)

TOOLS USED

Rotary tools were used from 0 feet to [illegible] feet, and from ______ feet to ______ feet
Cable tools were used from ______ feet to ______ feet, and from ______ feet to ______ feet

PRODUCTION

Put to producing No Production 19__

The production of the first 24 hours was ______ barrels of fluid of which ______% was oil; ______% emulsion; ______% water; and ______% sediment. Gravity, Be ______

If gas well, cu. ft. per 24 hours ______ Gallons gasoline per 1,000 cu. ft. of gas ______

Rock pressure, lbs. per sq. in. ______

EMPLOYEES

J. R. Reed, Driller — Sanford Rankin, Driller
Clayton Cravely, Driller — C. D. Taylor, Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 31st day of October 19 45

[signature]
Notary Public

My Commission expires 4-23-49

Hobbs, New Mexico October 31, 1945

Name [signature]

Position Field Supt.

Representing Stanolind Oil & Gas Company

Address Box F, Hobbs, New Mexico

EXHIBIT I

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
Surface	[illegible]	[illegible]	Sand and shells
[illegible]	1670	1439	Red beds
1670	1744	[illegible]	Anhydrite
1744	[illegible]	[illegible]	Salt and anhydrite
[illegible]	[illegible]	[illegible]	Anhydrite
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	82	Dolomite, lime and shale
[illegible]	[illegible]	17	Lime
[illegible]	[illegible]	[illegible]	Lime and dolomite
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Dolomite and lime
[illegible]	[illegible]	[illegible]	Shale
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Lime, shale and chert
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	Dolomite
[illegible]	[illegible]	[illegible]	Dolomite, lime and shale
[illegible]	[illegible]	[illegible]	Lime and chert
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Shale
[illegible]	[illegible]	[illegible]	Lime, shale and chert
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Lime and chert
[illegible]	[illegible]	[illegible]	Chert
[illegible]	[illegible]	[illegible]	Lime and chert
[illegible]	[illegible]	[illegible]	Chert
[illegible]	[illegible]	[illegible]	Lime and chert
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Lime and chert
[illegible]	[illegible]	[illegible]	Lime and shale
[illegible]	[illegible]	[illegible]	Lime, shale and sand
[illegible]	[illegible]	[illegible]	Lime, shale and chert
[illegible]	[illegible]	[illegible]	Shale, lime and sand
[illegible]	[illegible]	82	Shale, sand and chert
[illegible]	[illegible]	[illegible]	Chert
[illegible]	[illegible]	[illegible]	[illegible] chert and sand
[illegible]	[illegible]	[illegible]	Granite (T.D.)

Record of Drill-Stem Tests and Deviation Surveys

DST #1 - [illegible] 5/8" choke open 1 hour. Recovered [illegible] slightly oil cut sulphur water.
DST #2 - [illegible] 5/8" choke open 1 hour. Recovered [illegible] gas cut mud, trace of oil.
DST #3 - [illegible] 5/8" choke open [illegible] min. build-up pressure 450 psi. Recovered [illegible] mud.
DST #4 - [illegible] choke open for 1 hour. Recovered [illegible] drilling mud.
DST #5 - [illegible] choke open [illegible] min. [illegible] slightly before packer set. Recovered [illegible] drilling mud, [illegible]
DST #6 - [illegible] choke open [illegible] Recovered [illegible] sulphur water.
DST #7 - [illegible] choke open for 1 hr. Recovered [illegible] drilling mud.
DST #8 - [illegible] choke open [illegible] min. Recovered [illegible] drilling mud.
DST #9 - [illegible] choke open for 1 hr. Recovered [illegible] of [illegible] water and [illegible] drlg. mud.
DST #10 - [illegible] 5/8" choke open for 1 hr. Recovered [illegible] drilling mud.
DST #11 - [illegible] 5/8" choke open 1 hr. Recovered [illegible] drilling mud.

[illegible] casing at [illegible] to [illegible]. [illegible] was run from [illegible].

An [illegible] survey was taken [illegible] showing a maximum deviation of [illegible] degrees at [illegible].

A [illegible] Radioactivity Survey was taken from the surface to T.D. [illegible].

NOTE: Approximately 1200' of [illegible] casing was recovered after which well was plugged and abandoned.

EXHIBIT I

SCHUBERT FARMS WELL No.1
CROSS SECTION NE TO SW
CORROLATION OF LITHOLOGY
FROM EXHIBITS H & I

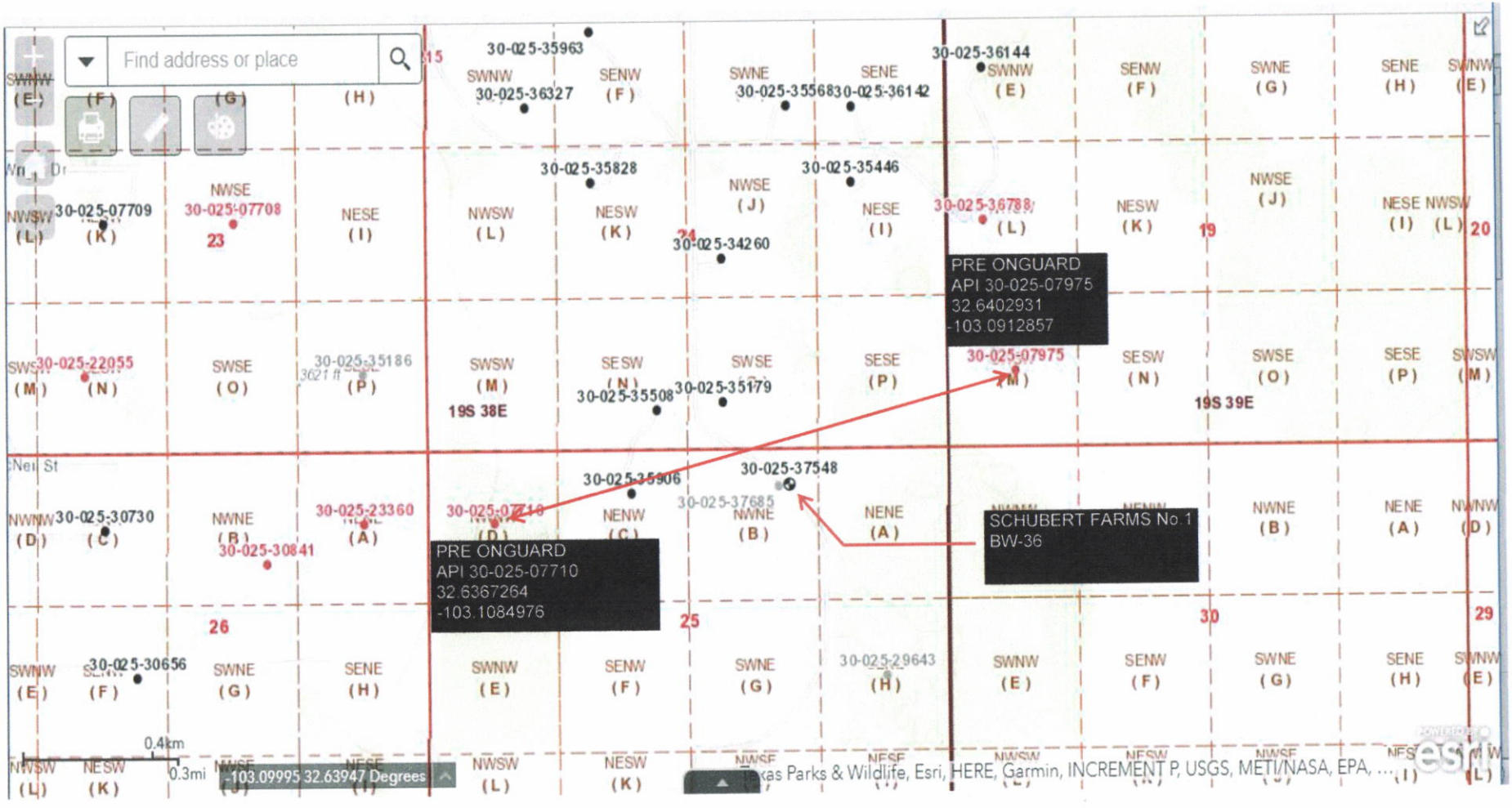
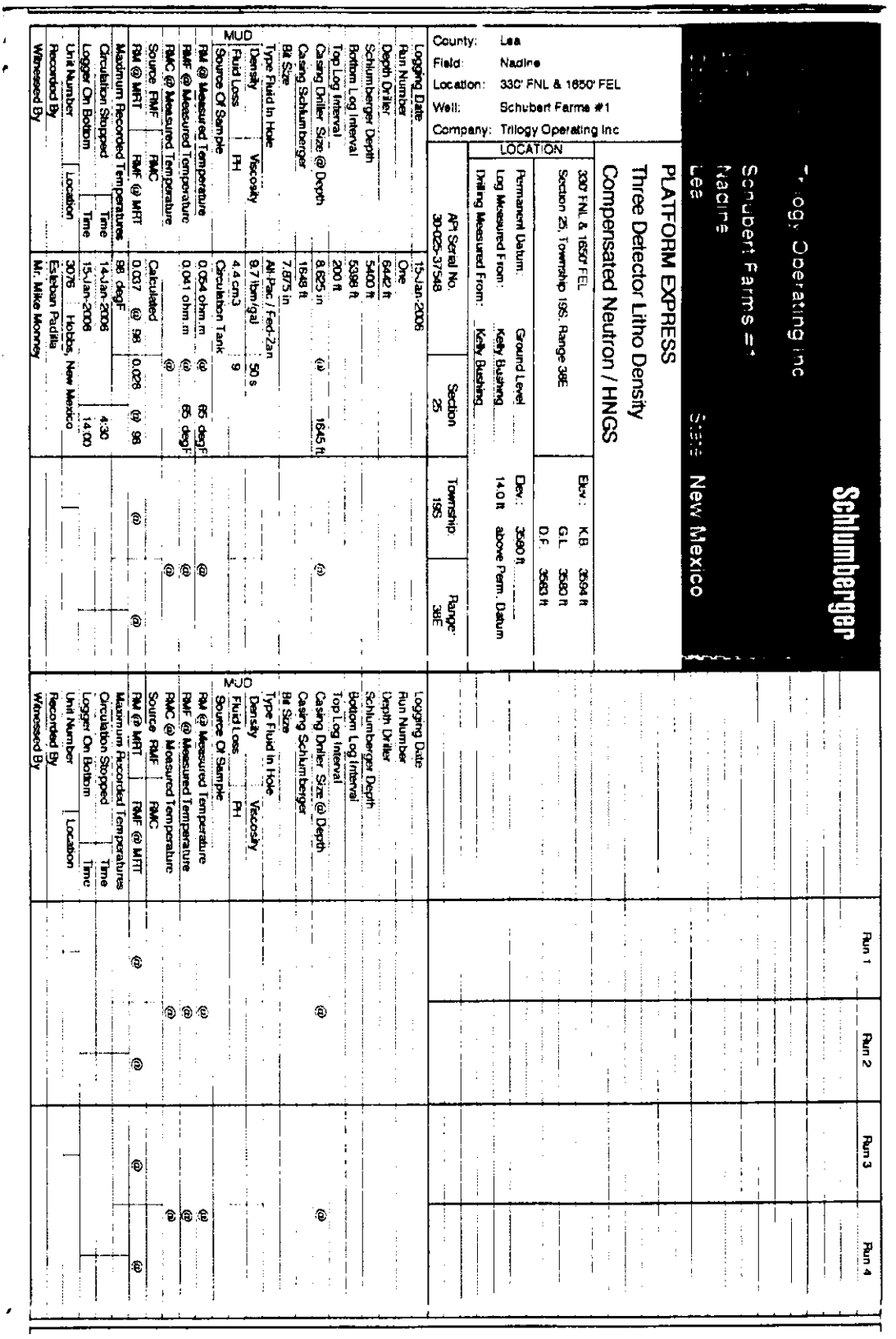


EXHIBIT J

SCHUBERT FARMS WELL No. 1
LITHO DENSITY COMPENSATED NEUTRON / HNGS
THICKNESS OF RED BEDS, ANHYRITE TO CSG. SHOE



Schlumberger

Trilogy Operating Inc
Schubert Farms #1
Nadine
Lea State New Mexico

PLATFORM EXPRESS
Three Detector Litho Density
Compensated Neutron / HNGS

County: Lea
Field: Nadine
Location: 330' FNL & 1650' FEL
Well: Schubert Farms #1
Company: Trilogy Operating Inc

LOCATION

Permanent Datum: Ground Level — Elev.: K.B. 3594 ft
Log Measured From: Kelly Bushing — 14.0 ft above Perm. Datum — G.L. 3580 ft
Drilling Measured From: Kelly Bushing — D.F. 3593 ft

API Serial No. 30-025-37548 | Section 25 | Township 19S | Range 38E

Section 25, Township 19S, Range 38E
330' FNL & 1650' FEL

		Run 1	Run 2	Run 3	Run 4
Logging Date	15-Jan-2006				
Run Number	One				
Depth Driller	6442 ft				
Schlumberger Depth	6400 ft				
Bottom Log Interval	6398 ft				
Top Log Interval	200 ft				
Casing Driller Size @ Depth	8.625 in @ 1645 ft				
Casing Schlumberger	1648 ft				
Bit Size	7.875 in				
Type Fluid In Hole	Al-Pac / Fed-Zan				
Density / Viscosity	9.7 lbm/gal 50 s				
MUD Fluid Loss / PH	4.4 cm3 9				
Source Of Sample	Circulation Tank				
RM @ Measured Temperature	0.054 ohm.m @ 85 degF	@	@	@	@
RMF @ Measured Temperature	0.041 ohm.m @ 85 degF	@	@	@	@
RMC @ Measured Temperature	@	@	@	@	@
Source RMF / RMC	Calculated				
RM @ MRT / RMF @ MRT	0.037 @ 96	0.028 @ 98	@	@	@
Maximum Recorded Temperatures	98 degF				
Circulation Stopped / Time	14-Jan-2006	4:30			
Logger On Bottom / Time	15-Jan-2006	14:00			
Unit Number / Location	3076 Hobbs, New Mexico				
Recorded By	Esteban Padilla				
Witnessed By	Mr. Mike Mooney				

EXHIBIT K

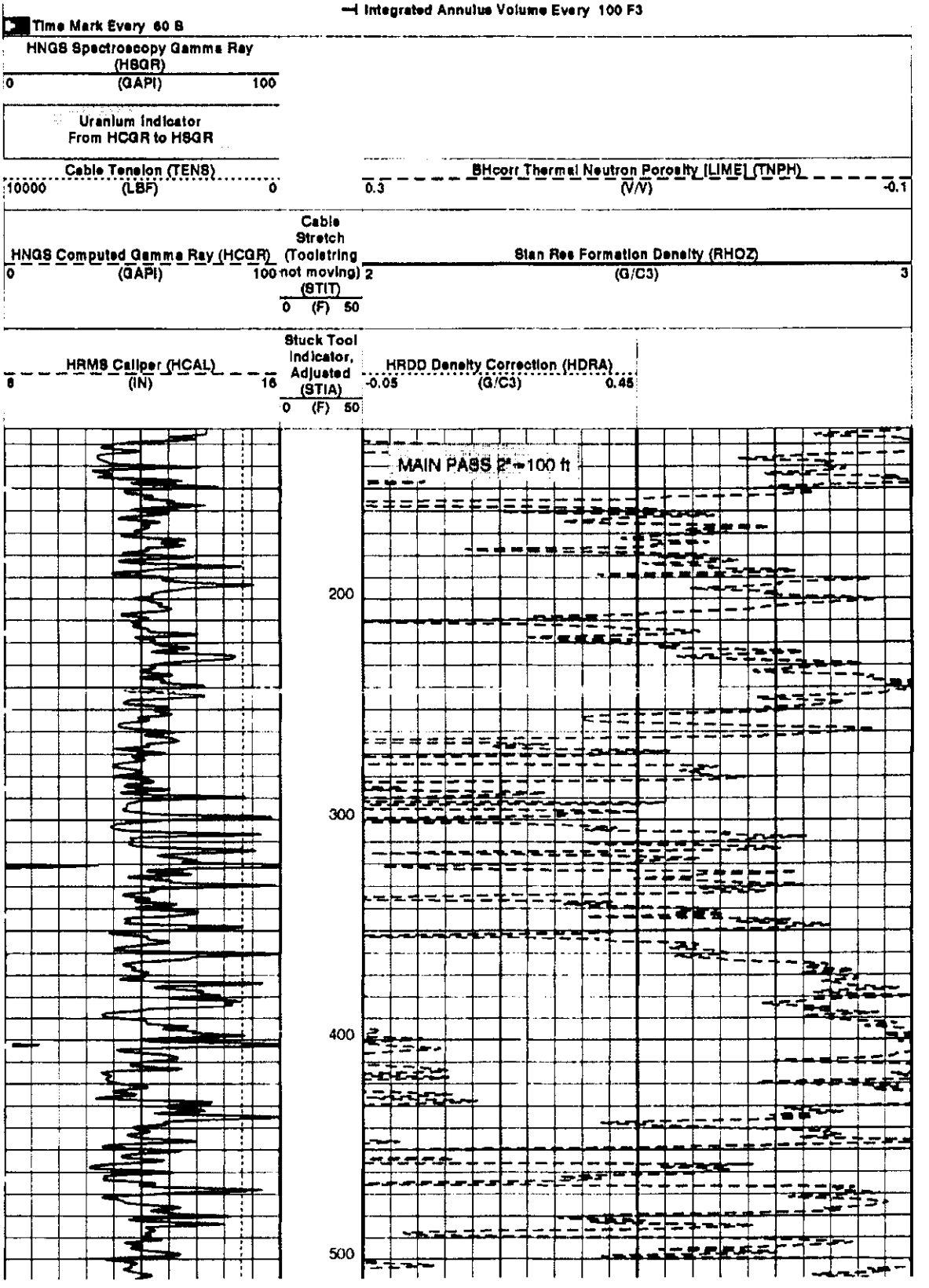

Integrated Annulus Volume Every 100 F3
Time Mark Every 60 S
HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100
Uranium Indicator From HCGR to HSGR
Cable Tension (TENS)
10000 (LBF) 0
BHcorr Thermal Neutron Porosity [LIME] (TNPH)
0.3 (V/V) -0.1
HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100
Cable Stretch (Toolstring not moving) (STIT)
0 (F) 50
Stan Res Formation Density (RHOZ)
2 (G/C3) 3
HRMS Caliper (HCAL)
6 (IN) 16
Stuck Tool Indicator, Adjusted (STIA)
0 (F) 50
HRDD Density Correction (HDRA)
-0.05 (G/C3) 0.45
MAIN PASS 2" = 100 ft
200
300
400
500

EXHIBIT K

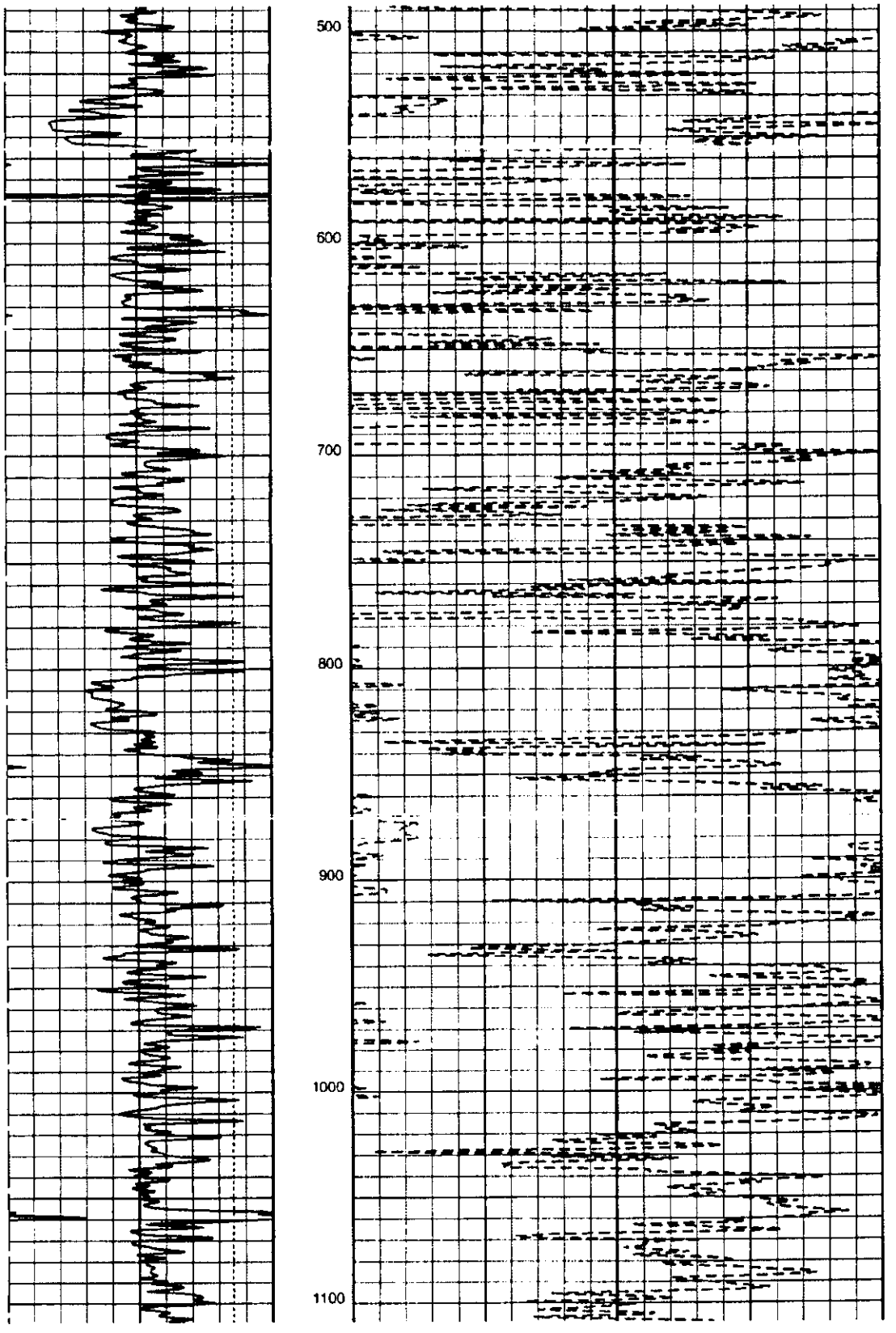


EXHIBIT K

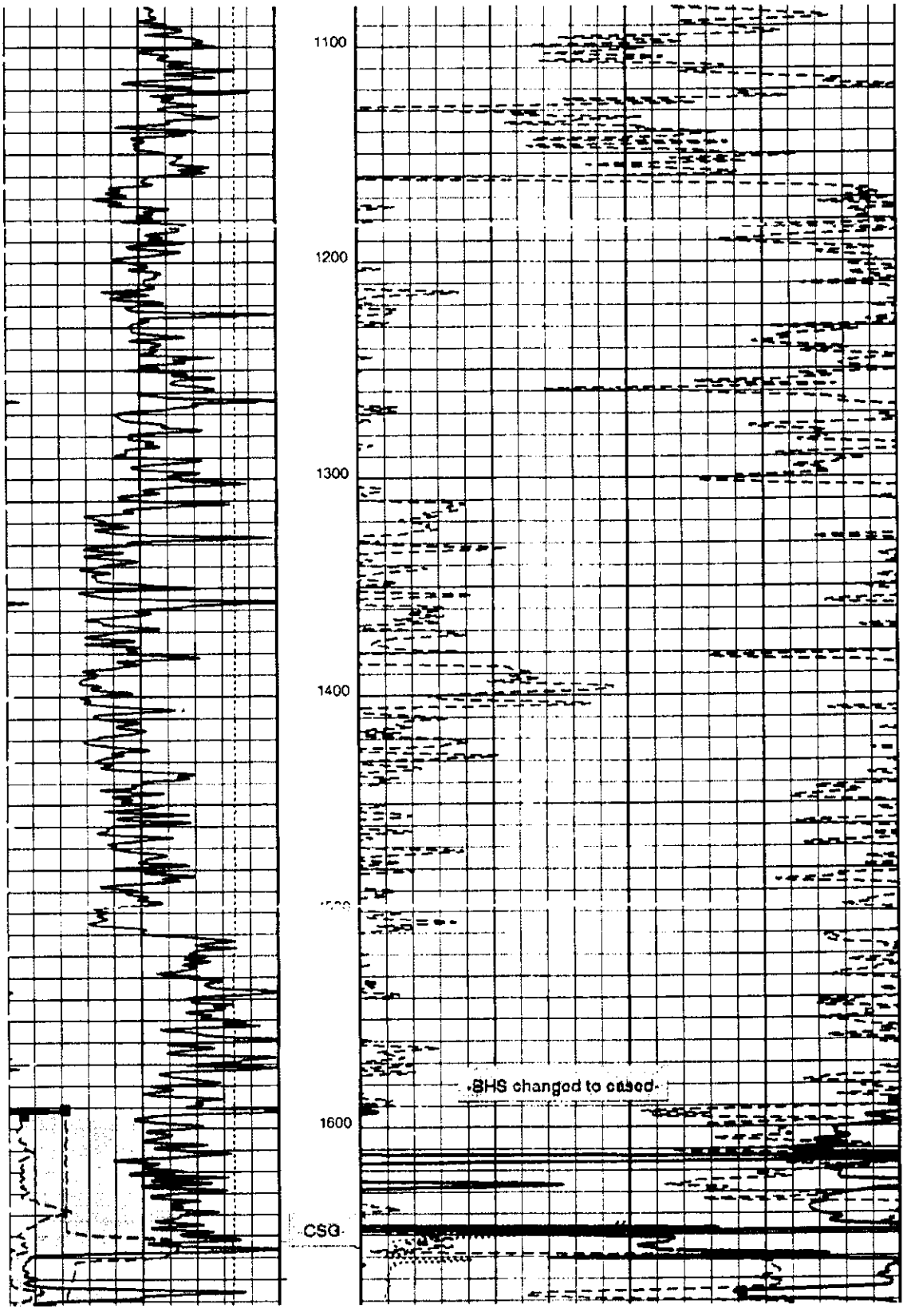


EXHIBIT K

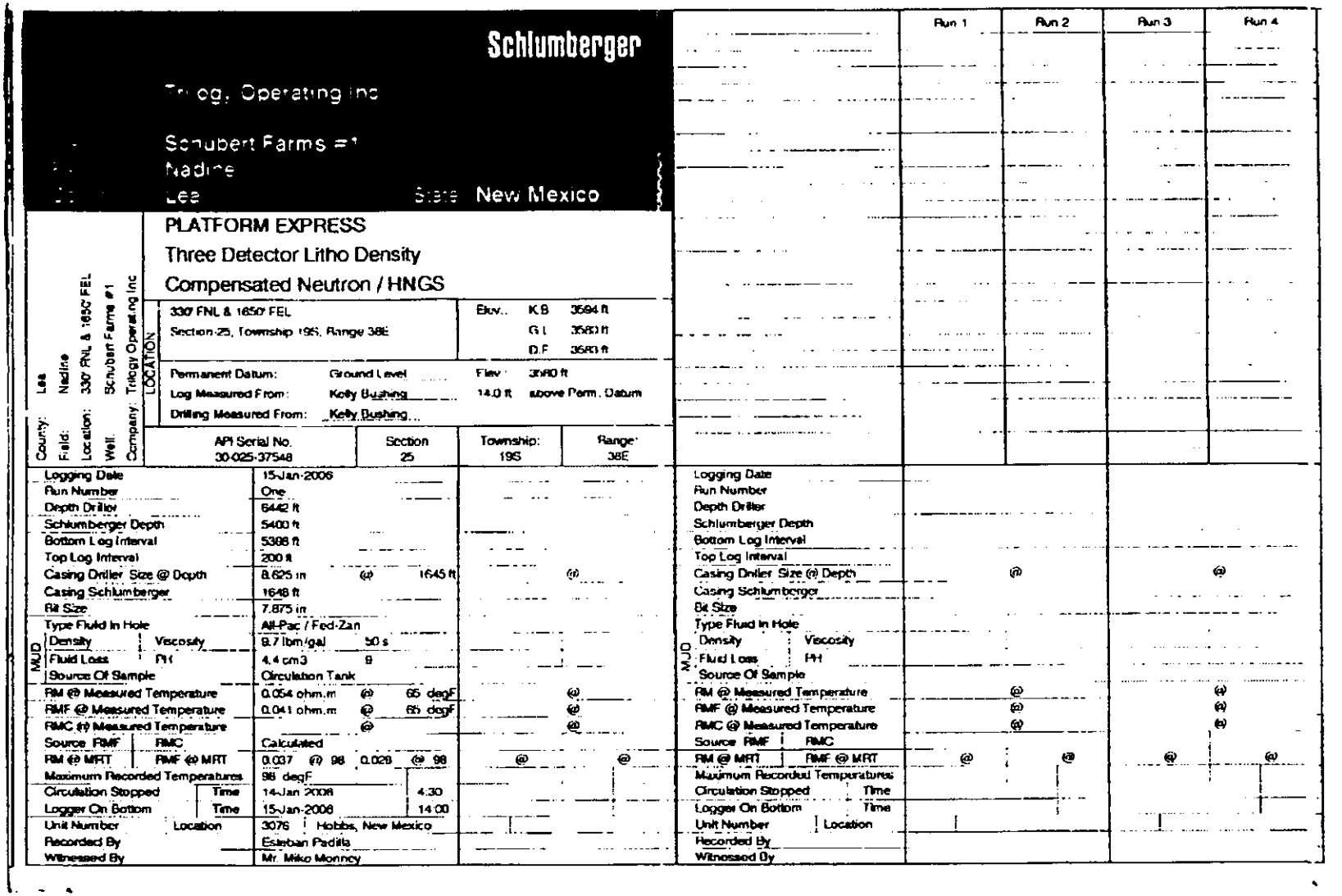

Schlumberger
Trilogy Operating Inc
Schubert Farms #1
Nadine
Lea
State New Mexico
PLATFORM EXPRESS
Three Detector Litho Density
Compensated Neutron / HNGS
LOCATION
330' FNL & 1650' FEL
Section 25, Township 19S, Range 38E
Elev.: K.B 3594 ft
G.L 3583 ft
D.F 3593 ft
Permanent Datum: Ground Level
Elev.: 3580 ft
Log Measured From: Kelly Bushing
14.0 ft above Perm. Datum
Drilling Measured From: Kelly Bushing
County: Lea
Field: Nadine
Location: 330' FNL & 1650' FEL
Well: Schubert Farms #1
Company: Trilogy Operating Inc
API Serial No. 30-025-37548
Section 25
Township: 19S
Range: 38E
Run 1
Run 2
Run 3
Run 4
Logging Date 15-Jan-2008
Run Number One
Depth Driller 6442 ft
Schlumberger Depth 5400 ft
Bottom Log Interval 5398 ft
Top Log Interval 200 ft
Casing Driller Size @ Depth 8.625 in @ 1645 ft
Casing Schlumberger 1648 ft
Bit Size 7.875 in
MUD
Type Fluid In Hole Alt-Pac / Fed-Zan
Density 9.7 lbm/gal Viscosity 50 s
Fluid Loss 4.4 cm3 PH 9
Source Of Sample Circulation Tank
RM @ Measured Temperature 0.054 ohm.m @ 65 degF
RMF @ Measured Temperature 0.041 ohm.m @ 65 degF
RMC @ Measured Temperature @
Source RMF RMC Calculated
RM @ MRT 0.037 @ 98 RMF @ MRT 0.028 @ 98
Maximum Recorded Temperatures 98 degF
Circulation Stopped Time 14-Jan 2008 4:30
Logger On Bottom Time 15-Jan-2008 14:00
Unit Number 3076 Location Hobbs, New Mexico
Recorded By Esteban Padilla
Witnessed By Mr. Mike Mooney

EXHIBIT L

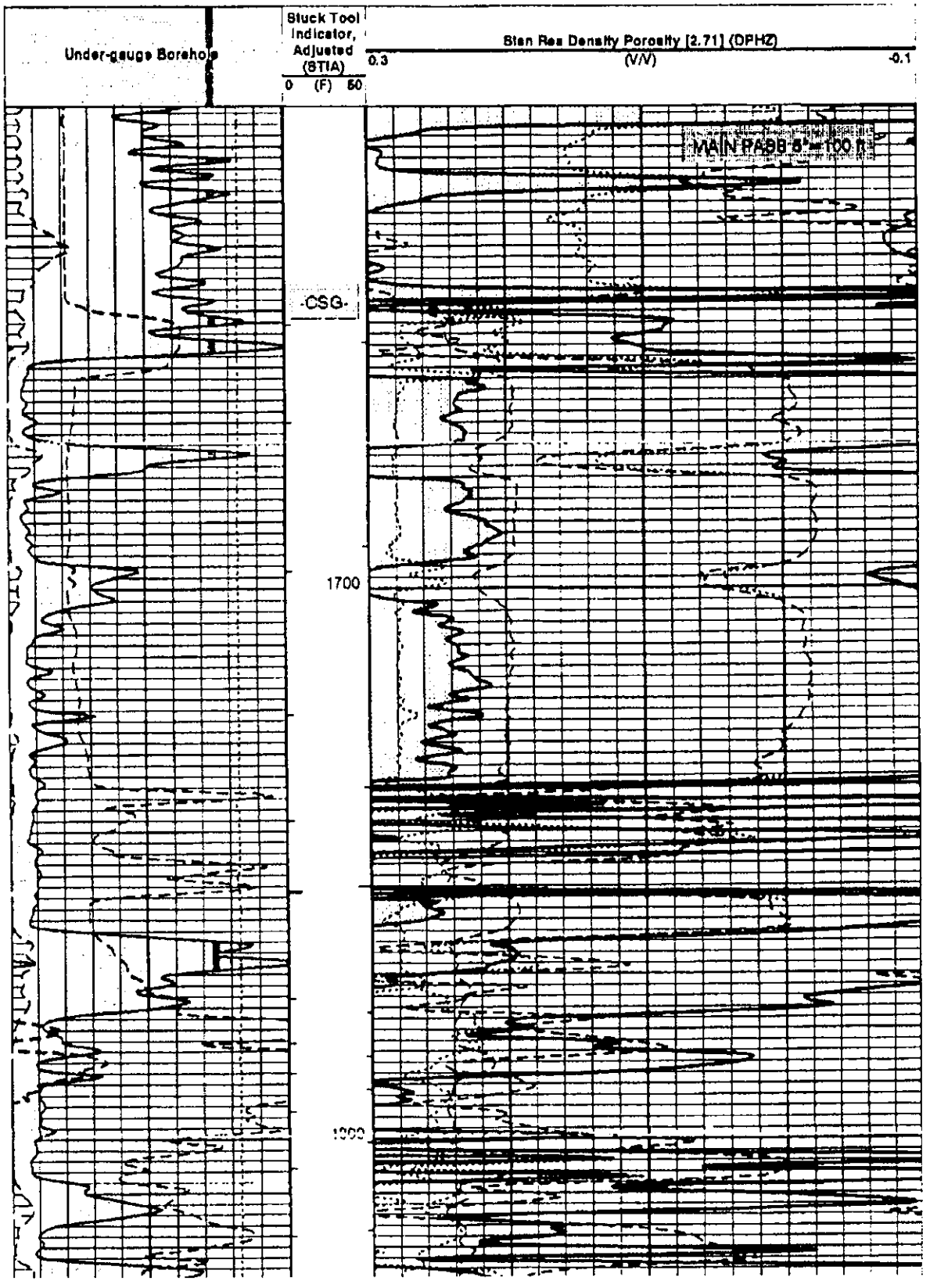

Under-gauge Borehole
Stuck Tool Indicator, Adjusted (STIA)
0 (F) 50
Stan Res Density Porosity [2.71] (DPHZ)
0.3
(V/V)
-0.1
MAIN PASS 5" = 100 ft
-CSG-
1700
1900

EXHIBIT L

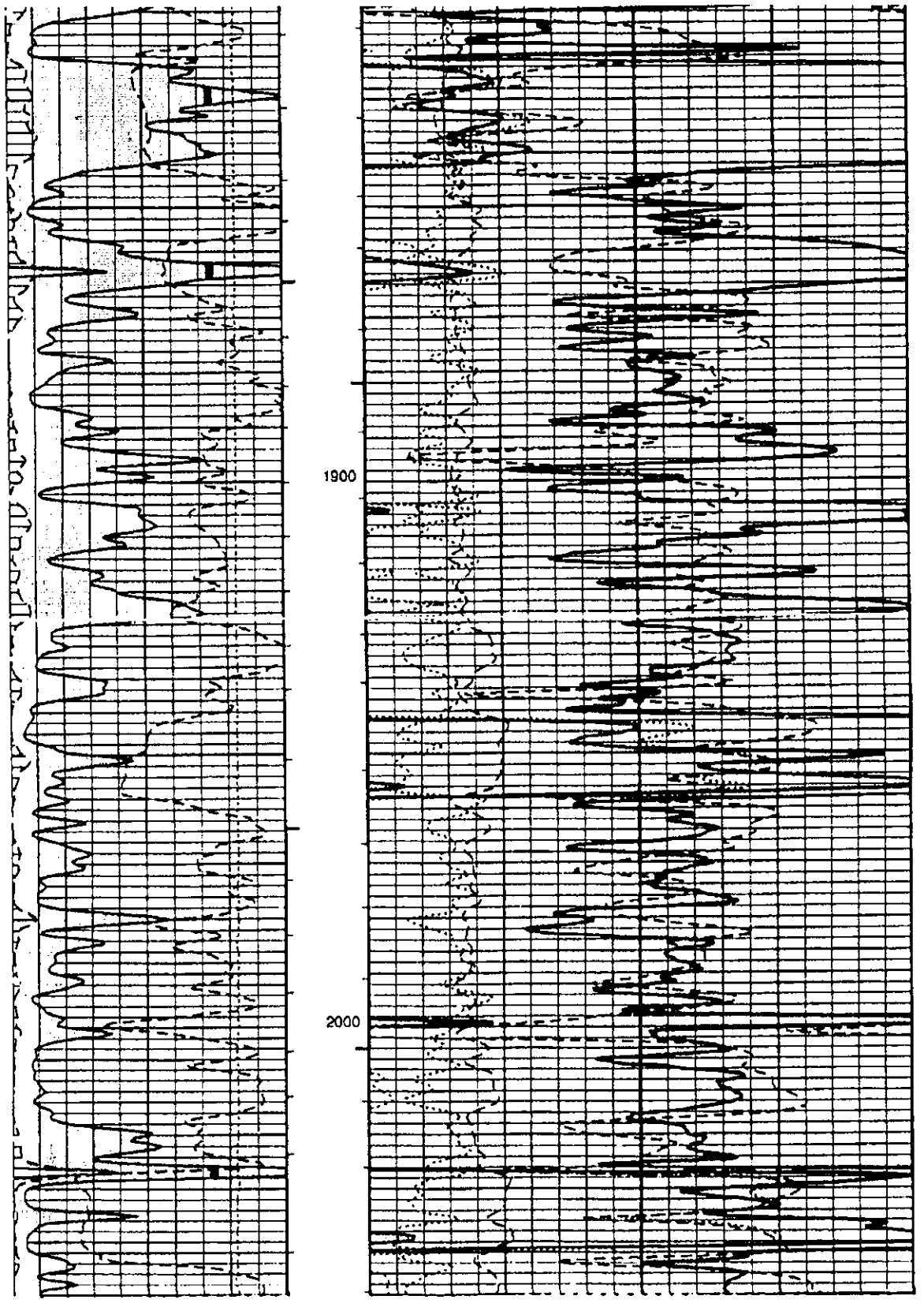


EXHIBIT L

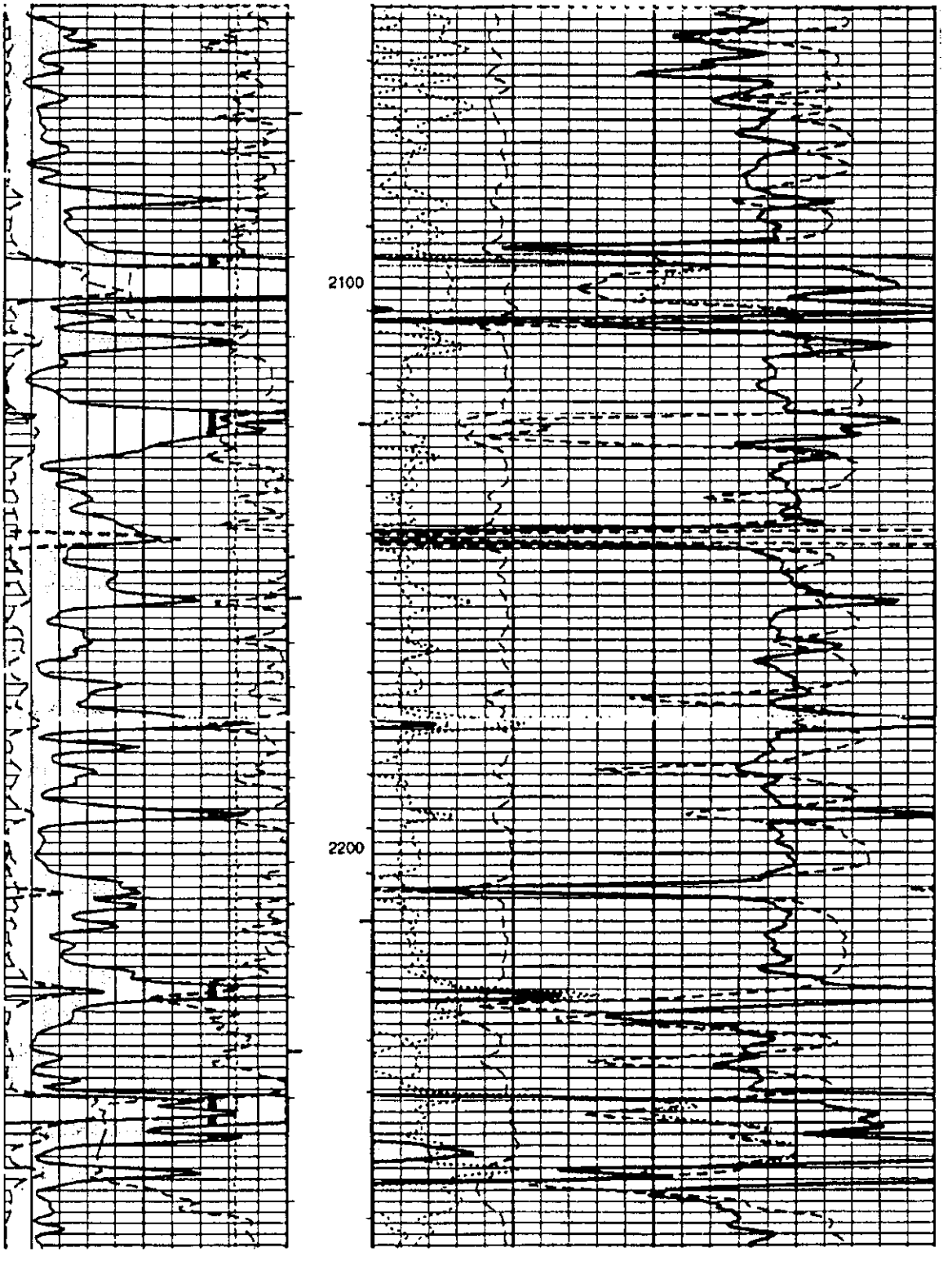


EXHIBIT L

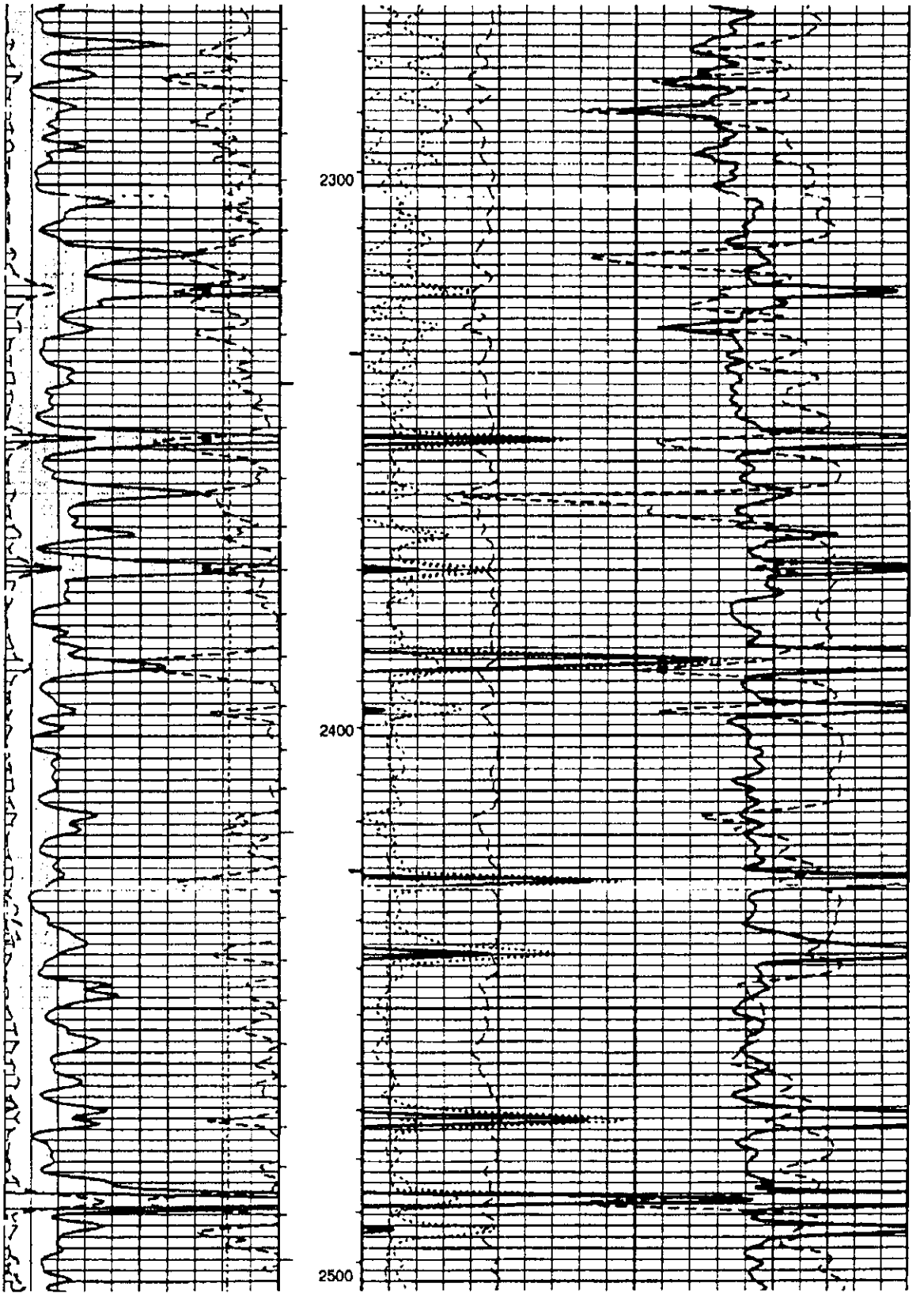


EXHIBIT L

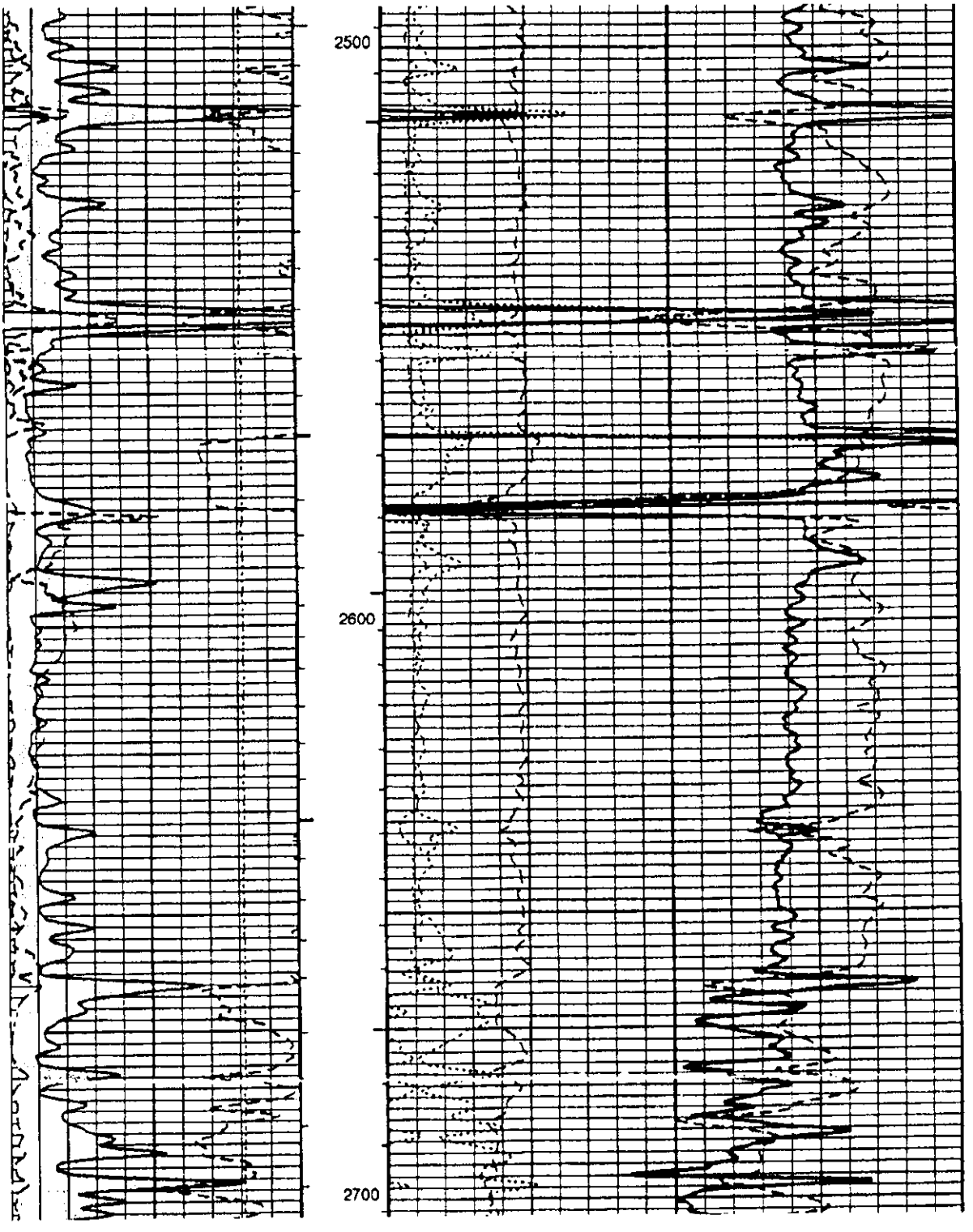


EXHIBIT L

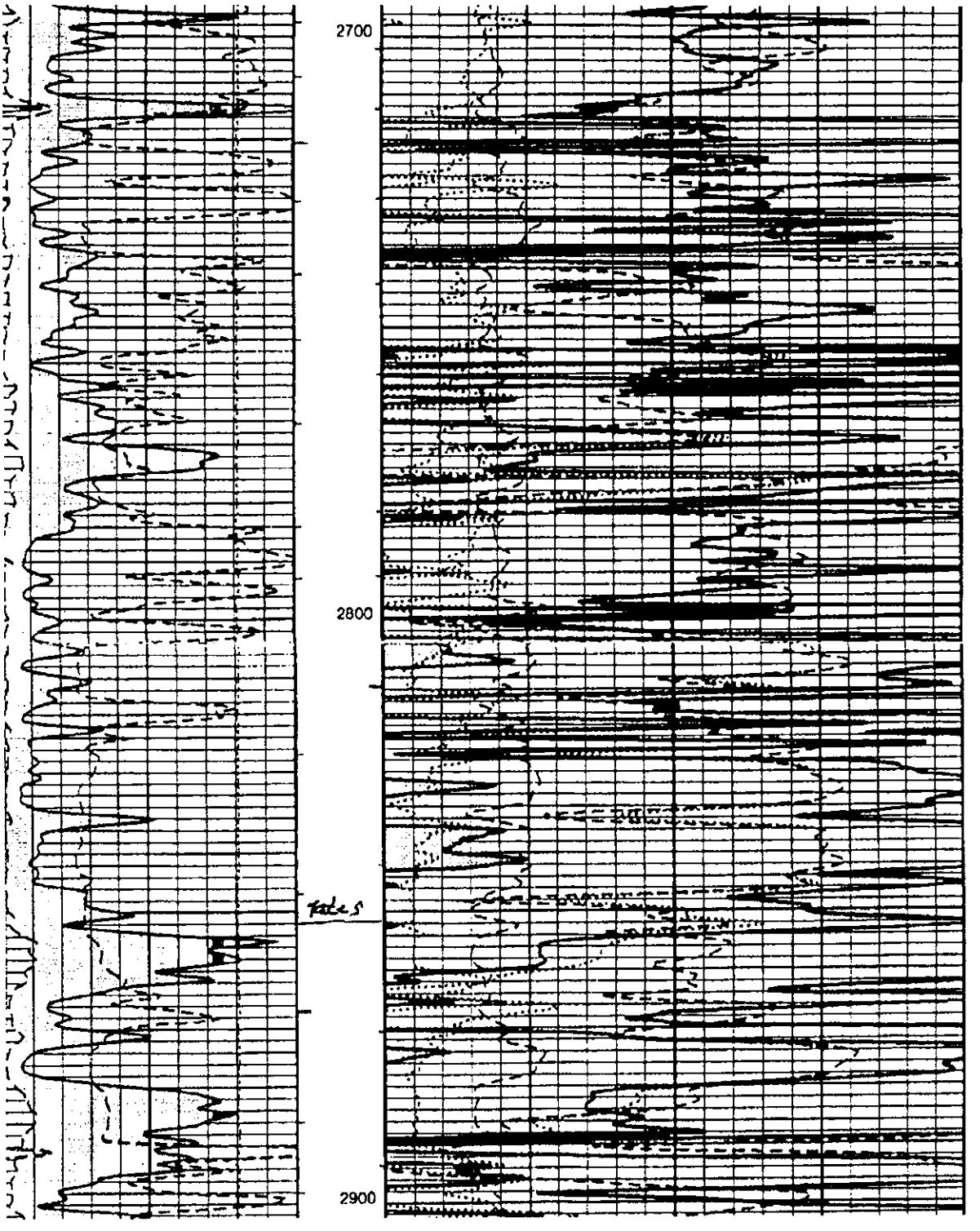
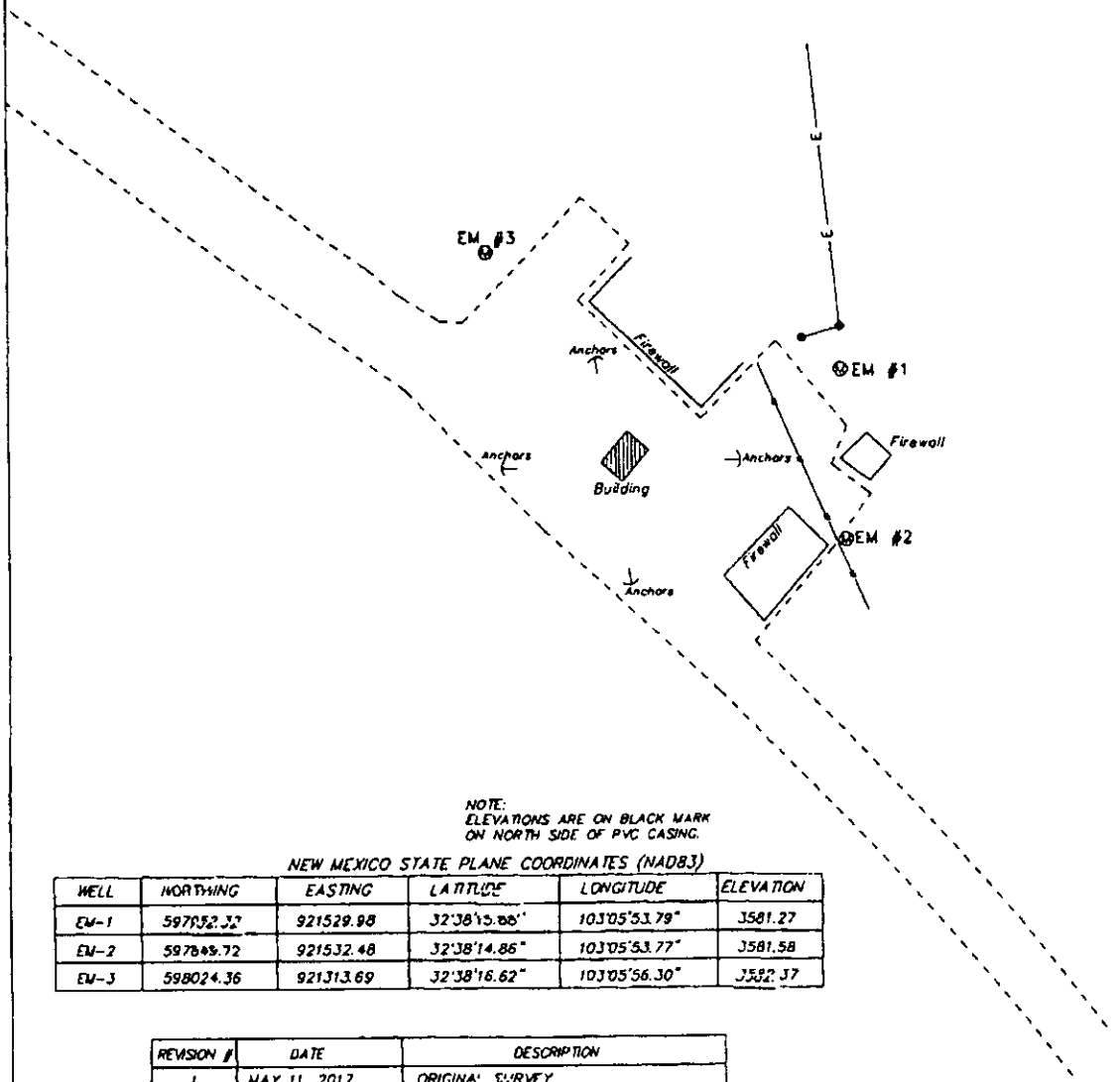


EXHIBIT L

SCHUBERT FARMS WELL No. 1
SURFACE MONITORING MARKERS

SECTION 25, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, *NEW MEXICO.*



NOTE:
ELEVATIONS ARE ON BLACK MARK ON NORTH SIDE OF PVC CASING.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
EM-1	597852.32	921529.98	32°38'15.88"	103°05'53.79"	3581.27
EM-2	597849.72	921532.48	32°38'14.86"	103°05'53.77"	3581.58
EM-3	598024.36	921313.69	32°38'16.62"	103°05'56.30"	3582.37

REVISION #	DATE	DESCRIPTION
1	MAY 11, 2017	ORIGINAL SURVEY
2	AUGUST 30, 2017	RESURVEY-NO CHANGE IN ELEVATIONS
3	JANUARY 10, 2018	RESURVEY-NO CHANGE IN ELEVATIONS

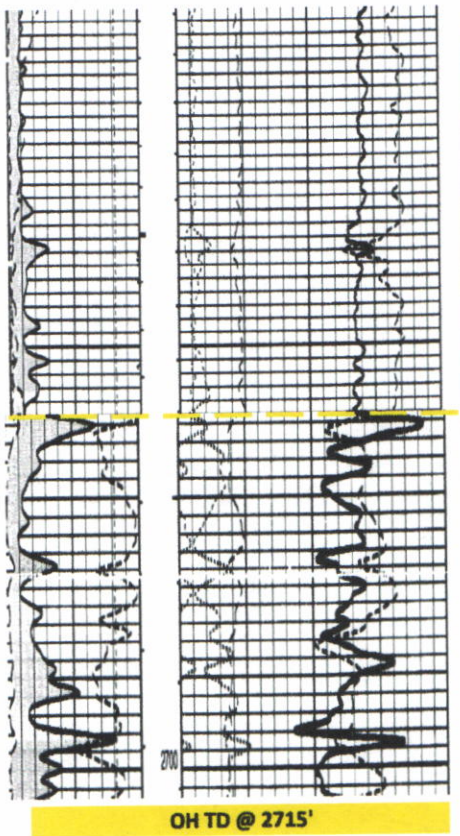
EXHIBIT M

Schubert Farms Well No1
API 30-025-37548
B SEC 25 T19S R38E
LAT: 32.6375999 LONG:-103.0988007

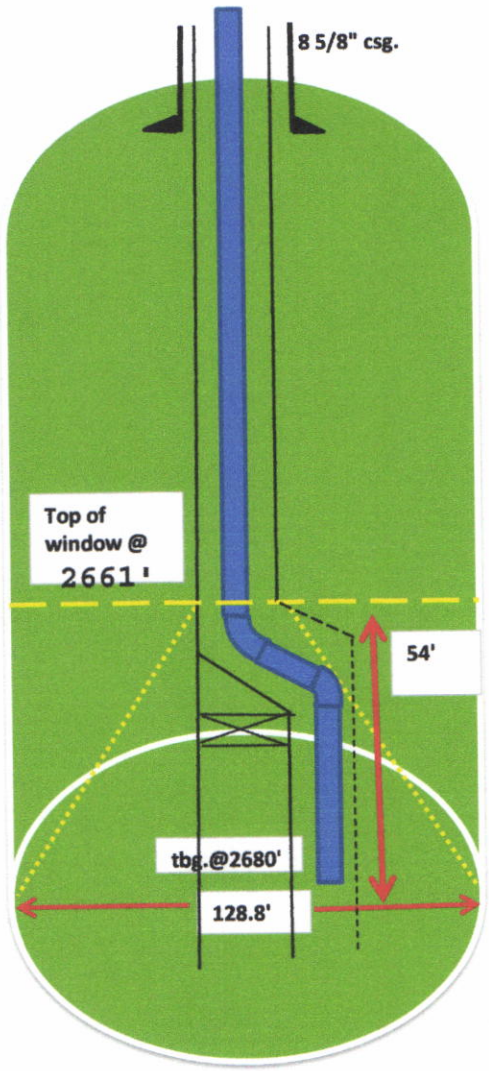
2 7/8" J-55 6.5# IPC

8 5/8" csg.

CAVERN SIZE BY CUBIC FOOT OF VOLUME



OH TD @ 2715'



PPG 9.97 brine
PPG 8.34 fresh
SG 1.1951

2017 Total Brine bbl. 153,518
122.136 LBS / BBL = 18,750,075 LBS HALITE
(18,750,075 LBS) / (80BLS per ft³) = 234,376 ft³

$V = \pi R^2 h / 3$
$V = (3.14159 * 64.4^2) * (54') / 3$
$V = 234,528 ft.^3$

Est. hight is 54'
Est. cavern floor diameter is 128.8'

EXHIBIT N

SCHUBERT FARMS WELL No.1
API 30-025-37548
MIT ACCEPTANCE OCD LETTER

Chavez, Carl J, EMNRD

From:	Chavez, Carl J, EMNRD
Sent:	Tuesday, June 27, 2017 9 41 AM
To	'Gary Schubert'
Cc:	Griswold, Jim, EMNRD, Whitaker, Mark A, EMNRD, Fortner, Kerry, EMNRD
Subject:	RE BW-36 Schubert Farms Well No 1 (API# 30-025-37548) OCD June 2, 2017 MIT Approval

Gary

Good morning The New Mexico Oil Conservation Division (OCD) is in receipt of and has completed its evaluation of the requested information.

OCD has determined that the above subject well MIT passed.

OCD review and reading from the original MIT chart indicates a start pressure of 325 psig and end pressure of 300 psig However, based on the spring weight, 24-hr chart scale, and clock speed, etc run for the MIT, OCD does not discount your stated pressures below

OCD evaluated this Cavern MIT Method utilizing the "Casing MIT" Pressure of +/- 10% Pass/Fail due to the low volume of fluids associated with the new brine well and small cavern size. As the cavern size matures, and fluid volume increases, OCD will communicate closely with the Permittee on MIT interpretations, and will eventually implement the +/- 1% Pass/Fail evaluation for the Cavern MIT method. In addition, OCD may require a Casing MIT to be run in lieu of a Cavern MIT in the future.

Please contact me if you have questions. Thank you

Mr Carl J Chavez, CHMM (#13099)
New Mexico Oil Conservation Division
Energy Minerals and Natural Resources Department
1220 South St Francis Drive
Santa Fe, New Mexico 87505
Ph (505) 476-3490
E-mail CarlJ Chavez@state nm us
"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: http //www emnrd state nm us/OCD and see "Publications")

From: Gary Schubert [mailto garymschubert@gmail com]
Sent: Tuesday, June 27, 2017 8 22 AM
To: Chavez, Carl J, EMNRD <CarlJ Chavez@state nm us>
Subject: BW-36

Mr Chavez,

Attached is the requested information regarding the MIT test on the Schubert Farms Well No. 1 (BW-36).
1 Signed letter from Mr. Larry Scott
2 Calibration information on Chart Recorder from Maclaskey Oilfield Services

EXHIBIT O

SCHUBERT FARMS WELL No.1
API 30-025-37548
LETTER OF EXPLANATION

Lynx Petroleum Consultants, Inc.
P O Box 1708
3325 Enterprise Drive
Hobbs, New Mexico 88241
575 392-6950 Fax 575 392-7886

June 9, 2017

New Mexico Oil Conservation Division
1625 N French Drive
Hobbs, New Mexico 88240

Re HRC Inc Schubert Farms Brine Well No 1 (BW-36)
API#230-025-2976

Gentlemen

I was requested by the principal to review the pressure tests run on the above well which were performed on June 2, 2017 and exhibited a pressure loss over several test intervals of some 12-15 psig The concern expressed was that this loss slightly exceeded that allowed by the OCD (9 6 psig)

This wellbore was recently completed in the halite interval and has no significant operational history in this zone The well was originally drilled and completed in several intervals below the halite in attempts to establish hydrocarbon production This history would lead to the conclusion that there has been no significant "mining" of the salt with the operations that have been conducted so far

Although I am unable to develop a quantitative analysis due to incomplete data, there is a qualitative observation that can be drawn from the wellbore history along with the charts The pressure tests were conducted with fresh water It is therefore probable that solution mining was underway during the test period Water chemistry dictates that volume losses converting fresh water to brine are on the order of 3%, that is, 43 3 gallons of material (water + halite) are required to generate 42 gallons of saturated brine The volume decrease as a result of salt going into solution could very well be the cause of the pressure loss This effect is masked during pressure tests on established brine wells due to the fact that there is already a large reservoir of brine in the cavern I am of the opinion that there is nothing leaking here and that the wellbore should be approved to commence operations

Sincerely
Lynx Petroleum Consultants, Inc

Larry R. Scott

Larry R Scott
President

EXHIBIT O

SCHUBERT FARMS WELL No. 1
API 30-025-37548
SUBSEQUENT MIT TEST

HRC INC.
P. O. Box 5011
Hobbs, NM 88241
(Office) 575-393-6662 (Fax) 575-397-2976

HRC Inc. Schubert Farms Brine Well No. 1 (BW-36)

MIT TEST

6-2-2017

7:30 AM
Rig up Maclaskey Oilfield Services Pump Truck - (David Arron) at 7:30AM

Hook up backside CSG Pump 5 5 bbl to 500 psi for 5 minutes; bleed down to 360 psi for 1.5 hours.

Call OCD to request witness of test talk to George Saenz (OCD) He advises to bleed pressure to 320 psi and start chart at 11:15AM

Kerry Fortner, (OCD) arrives to witness test Kerry Fortner witnessed chart recorder calibration. He advises to bleed pressure off chart recorder to 0 psi and then open pressure back to chart recorder (note on chart) Run chart. Test for 4 hours Begin test 12:20 pm Complete test at 4:20 pm

David Arron (Maclaskey Oilfield Services)

See enclosed test explanation from Lynx Petroleum Consultants, Inc

EXHIBIT O

SCHUBERT FARMS WELL No. 1 BW-36
API 30-025-37548
330'FNL, 1650 FEL
UL:B, SEC 25, T19S, R38E
LAT:32.6375999
LONG:-103.0988007
LEA COUNTY NM

MIT CHART 6-2-17

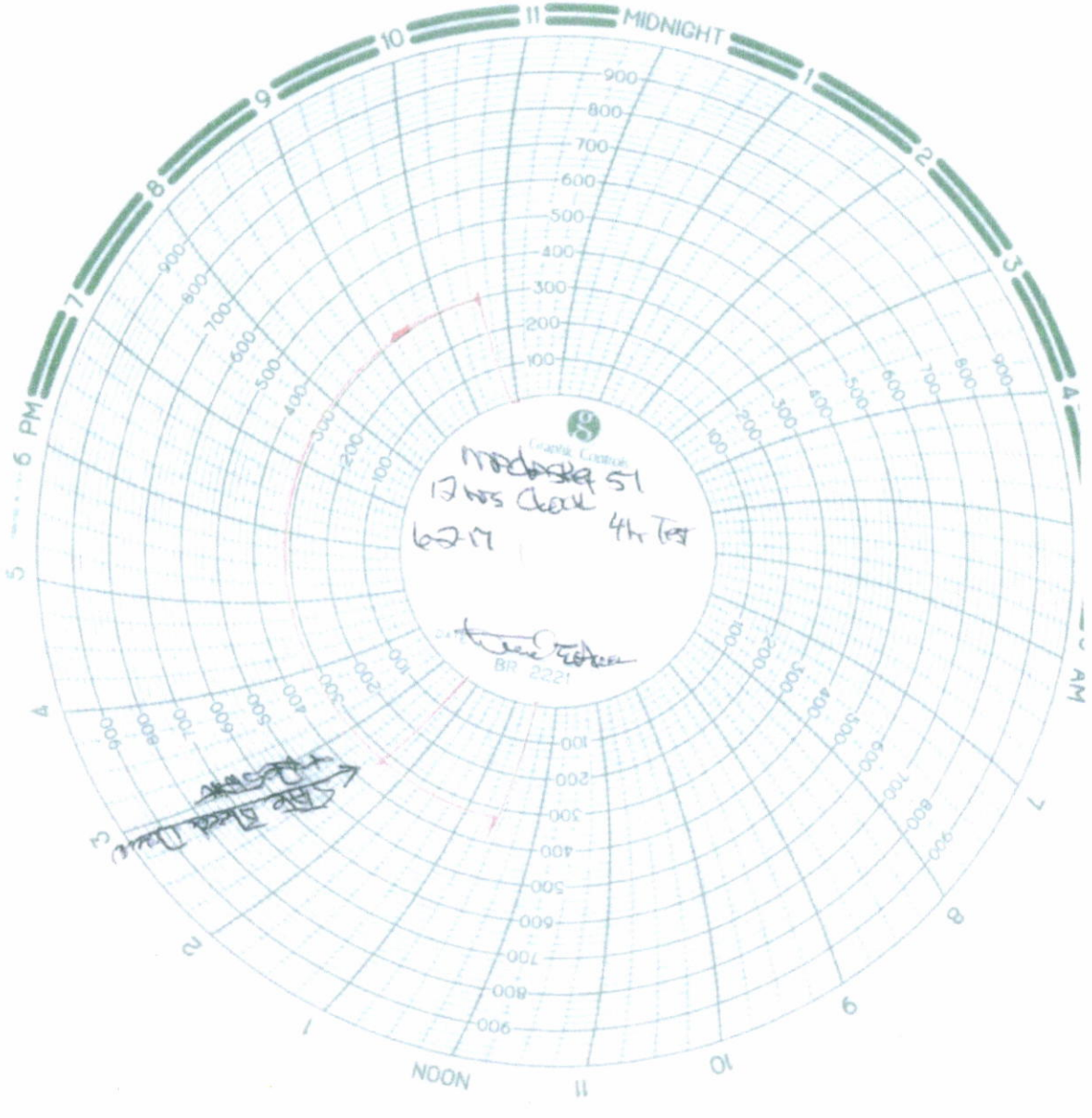


EXHIBIT O

SCHUBERT FARMS WELL No. 1
CERTIFICATE OF CALABRATION
CHART RECORDER

MACLASKEY
OILFIELD SERVICES

5900 WEST LOVINGTON HWY HOBBS NM 88240
575-393-7316

THIS IS TO CERTIFY THAT. DATE 5-1-17

I Albert Rodriguez METER TECHNICAN FOR MACLASKEY OILFIELD SERVICES, INC HAS ~~CHECKED THE CALIBRATION~~ ON THE FOLLOWING INSTRUMENT. 1000 PRESSURE RECORDER.

SERIAL NUMBER 9501

TESTED AT THESE POINTS.

PRESSURE 500

TEST	AS FOUND	CORRECTED
0	100	
100	300	
200	300	
300	400	
400	500	

PRESSURE 1000

TEST	AS FOUND	CORRECT
500	600	
600	700	
700	800	
800	900	
900	1000	

REMARKS

SIGNED Albert Rodriguez

EXHIBIT O

Form 51

CARDINAL Laboratories

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

December 05, 2017

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/16/17 10:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BRINE WATER	H703207-01	Water	16-Nov-17 09:00	16-Nov-17 10:22
MONITOR WELL	H703207-02	Water	16-Nov-17 09:00	16-Nov-17 10:22
FRESH WATER	H703207-03	Water	16-Nov-17 09:00	16-Nov-17 10:22

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

BRINE WATER

H703207-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Alkalinity, Bicarbonate	**476**		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Chloride*	**162000**		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-Cl-B	
Conductivity*	**475000**		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	**6.96**		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	**6580**		833	mg/L	83.3	7112201	AC	22-Nov-17	375.4	
TDS*	**266000**		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	**390**		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Green Analytical Laboratories										
Total Recoverable Metals by ICP (E200.7)										
Calcium*	**844**		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Magnesium*	**455**		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Potassium*	**1420**		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Sodium*	**91100**		200	mg/L	200	B711206	JDA	29-Nov-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

MONITOR WELL

H703207-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Alkalinity, Bicarbonate	327		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Chloride*	356		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-Cl-B	
Conductivity*	1790		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	7.60		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	264		50.0	mg/L	5	7112201	AC	22-Nov-17	375.4	
TDS*	1180		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	268		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Green Analytical Laboratories										
Total Recoverable Metals by ICP (E200.7)										
Calcium*	171		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Magnesium*	45.3		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Sodium*	125		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

FRESH WATER

H703207-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Alkalinity, Bicarbonate	283		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Chloride*	224		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-Cl-B	
Conductivity*	1420		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	7.98		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	195		25.0	mg/L	2.5	7112201	AC	22-Nov-17	375.4	
TDS*	896		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	232		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Green Analytical Laboratories										
Total Recoverable Metals by ICP (E200.7)										
Calcium*	119		5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Magnesium*	25.6		5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Potassium*	<50.0		50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Sodium*	130		50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7110705 - General Prep - Wet Chem										
Blank (7110705-BLK1)				Prepared & Analyzed: 07-Nov-17						
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (7110705-BS1)				Prepared & Analyzed: 07-Nov-17						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120			
Alkalinity, Total	270	10.0	mg/L	250		108	80-120			
LCS Dup (7110705-BSD1)				Prepared & Analyzed: 07-Nov-17						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	355	12.5	mg/L				80-120	7.30	20	
Alkalinity, Total	290	10.0	mg/L	250		116	80-120	7.14	20	
Batch 7111608 - Filtration										
Blank (7111608-BLK1)				Prepared: 16-Nov-17 Analyzed: 17-Nov-17						
TDS	ND	5.00	mg/L							
LCS (7111608-BS1)				Prepared: 16-Nov-17 Analyzed: 17-Nov-17						
TDS	228	5.00	mg/L	213		107	80-120			
Duplicate (7111608-DUP1)		Source: H703199-01		Prepared: 16-Nov-17 Analyzed: 17-Nov-17						
TDS	9630	5.00	mg/L		9890			2.64	20	
Batch 7111701 - General Prep - Wet Chem										
LCS (7111701-BS1)				Prepared: 16-Nov-17 Analyzed: 17-Nov-17						
Conductivity	507		uS/cm	500		101	80-120			
pH	6.97		pH Units	7.00		99.6	90-110			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7111701 - General Prep - Wet Chem										
Duplicate (7111701-DUP1)	Source: H703206-01			Prepared: 16-Nov-17 Analyzed: 17-Nov-17						
Conductivity	501000	1.00	uS/cm		494000			1.46	20	
pH	7.07	0.100	pH Units		7.06			0.142	20	
Batch 7112001 - General Prep - Wet Chem										
Blank (7112001-BLK1)				Prepared & Analyzed: 20-Nov-17						
Chloride	ND	4.00	mg/L							
LCS (7112001-BS1)				Prepared & Analyzed: 20-Nov-17						
Chloride	100	4.00	mg/L	100	100	80-120				
LCS Dup (7112001-BSD1)				Prepared & Analyzed: 20-Nov-17						
Chloride	100	4.00	mg/L	100	100	80-120	0.00	20		
Batch 7112201 - General Prep - Wet Chem										
Blank (7112201-BLK1)				Prepared & Analyzed: 22-Nov-17						
Sulfate	ND	10.0	mg/L							
LCS (7112201-BS1)				Prepared & Analyzed: 22-Nov-17						
Sulfate	23.2	10.0	mg/L	20.0	116	80-120				
LCS Dup (7112201-BSD1)				Prepared & Analyzed: 22-Nov-17						
Sulfate	23.6	10.0	mg/L	20.0	118	80-120	1.79	20		

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B711172 - Total Rec. 200.7/200.8/200.2										
Blank (B711172-BLK1)				Prepared: 20-Nov-17 Analyzed: 22-Nov-17						
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
LCS (B711172-BS1)				Prepared: 20-Nov-17 Analyzed: 22-Nov-17						
Magnesium	20.8	0.100	mg/L	20.0		104	85-115			
Calcium	4.23	0.100	mg/L	4.00		106	85-115			
Sodium	6.68	1.00	mg/L	6.48		103	85-115			
Potassium	8.07	1.00	mg/L	8.00		101	85-115			
LCS Dup (B711172-BSD1)				Prepared: 20-Nov-17 Analyzed: 22-Nov-17						
Magnesium	20.8	0.100	mg/L	20.0		104	85-115	0.0742	20	
Potassium	8.22	1.00	mg/L	8.00		103	85-115	1.77	20	
Calcium	4.24	0.100	mg/L	4.00		106	85-115	0.215	20	
Sodium	6.66	1.00	mg/L	6.48		103	85-115	0.224	20	
Batch B711206 - Total Rec. 200.7/200.8/200.2										
Blank (B711206-BLK1)				Prepared: 27-Nov-17 Analyzed: 29-Nov-17						
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
LCS (B711206-BS1)				Prepared: 27-Nov-17 Analyzed: 29-Nov-17						
Magnesium	20.7	0.100	mg/L	20.0		104	85-115			
Potassium	8.35	1.00	mg/L	8.00		104	85-115			
Calcium	4.15	0.100	mg/L	4.00		104	85-115			
Sodium	6.64	1.00	mg/L	6.48		102	85-115			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: FARMS #1 Project Manager: BEN DONAHUE Fax To:	Reported: 05-Dec-17 14:36

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B711206 - Total Rec. 200.7/200.8/200.2										
LCS Dup (B711206-BSD1)				Prepared: 27-Nov-17 Analyzed: 29-Nov-17						
Potassium	8.07	1.00	mg/L	8.00		101	85-115	3.36	20	
Magnesium	20.0	0.100	mg/L	20.0		100	85-115	3.34	20	
Sodium	6.43	1.00	mg/L	6.48		99.2	85-115	3.28	20	
Calcium	3.99	0.100	mg/L	4.00		99.7	85-115	4.11	20	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT P

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: EPZ Water Station
Project Manager: Ben Donahue
Address:
City: State: Zip:
Phone #: 575 393 3194 Fax #:
Project #: Project Owner:
Project Name: Schuber Farms #1
Project Location:
Sampler Name: Ben Donahue

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Cation / Anions

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	PRESERV: ACID/BASE	ICE / COOL	OTHER	SAMPLING: DATE	TIME
H703207-1	Brine Water	G	1		✓								11-16-17	9:00
-2	Monitor Well													
-3	Fresh Water													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Date: 11/16/17 Received By:
Relinquished By: Date: Time: 10:22AM Received By: Tamara Oldaker
Delivered By: (Circle One) Sampler UPS - Bus - Other:
0.3°C Corrected 0.5°C
Sample Condition: Cool: Yes / No; Intact: Yes / No
CHECKED BY: (Initials) T.O. #75

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
email to: garymschubert@gmail.com

Please fax written changes to (575) 393-2326

EXHIBIT P

Farms1

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 04, 2017

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT FARMS

Enclosed are the results of analyses for samples received by the laboratory on 04/20/17 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH WATER	H701043-01	Water	20-Apr-17 08:00	20-Apr-17 12:00
BRINE WATER	H701043-02	Water	20-Apr-17 08:00	20-Apr-17 12:00
MONITOR WELL	H701043-03	Water	20-Apr-17 08:00	20-Apr-17 12:00

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

FRESH WATER

H701043-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Alkalinity, Bicarbonate	**244**		5.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Chloride*	**510**		4.00	mg/L	1	7042103	AC	25-Apr-17	4500-Cl-B	
Conductivity*	**2710**		1.00	uS/cm	1	7042105	AC	21-Apr-17	120.1	
pH*	**7.32**		0.100	pH Units	1	7042007	AC	20-Apr-17	150.1	
Sulfate*	**579**		125	mg/L	12.5	7042613	AC	26-Apr-17	375.4	QM-07
TDS*	**1870**		5.00	mg/L	1	7042114	AC	25-Apr-17	160.1	
Alkalinity, Total*	**200**		4.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Green Analytical Laboratories										
Total Recoverable Metals by ICP (E200.7)										
Calcium*	**254**		0.100	mg/L	1	B704200	JDA	01-May-17	EPA200.7	
Magnesium*	**86.9**		0.100	mg/L	1	B704200	JDA	01-May-17	EPA200.7	
Potassium*	**7.62**		1.00	mg/L	1	B704200	JDA	01-May-17	EPA200.7	
Sodium*	**228**		1.00	mg/L	1	B704200	JDA	01-May-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

BRINE WATER

H701043-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Alkalinity, Bicarbonate	**268**		5.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Chloride*	**122000**		4.00	mg/L	1	7042103	AC	25-Apr-17	4500-Cl-B	
Conductivity*	**357000**		1.00	uS/cm	1	7042105	AC	21-Apr-17	120.1	
pH*	**6.85**		0.100	pH Units	1	7042007	AC	20-Apr-17	150.1	
Sulfate*	**4430**		833	mg/L	83.3	7042613	AC	26-Apr-17	375.4	
TDS*	**198000**		5.00	mg/L	1	7042114	AC	25-Apr-17	160.1	
Alkalinity, Total*	**220**		4.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Green Analytical Laboratories										
Total Recoverable Metals by ICP (E200.7)										
Calcium*	**920**		10.0	mg/L	100	B704200	JDA	01-May-17	EPA200.7	
Magnesium*	**524**		10.0	mg/L	100	B704200	JDA	01-May-17	EPA200.7	
Potassium*	**950**		100	mg/L	100	B704200	JDA	01-May-17	EPA200.7	
Sodium*	**80100**		100	mg/L	100	B704200	JDA	01-May-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

MONITOR WELL

H701043-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Alkalinity, Bicarbonate	**244**		5.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Chloride*	**316**		4.00	mg/L	1	7042103	AC	25-Apr-17	4500-Cl-B	
Conductivity*	**1700**		1.00	uS/cm	1	7042105	AC	21-Apr-17	120.1	
pH*	**7.58**		0.100	pH Units	1	7042007	AC	20-Apr-17	150.1	
Sulfate*	**221**		50.0	mg/L	5	7042613	AC	26-Apr-17	375.4	
TDS*	**1090**		5.00	mg/L	1	7042114	AC	25-Apr-17	160.1	
Alkalinity, Total*	**200**		4.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Green Analytical Laboratories										
Total Recoverable Metals by ICP (E200.7)										
Calcium*	**161**		2.00	mg/L	20	B704200	JDA	01-May-17	EPA200.7	
Magnesium*	**46.3**		2.00	mg/L	20	B704200	JDA	01-May-17	EPA200.7	
Potassium*	<20.0		20.0	mg/L	20	B704200	JDA	01-May-17	EPA200.7	
Sodium*	**131**		20.0	mg/L	20	B704200	JDA	01-May-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7041918 - General Prep - Wet Chem										
Blank (7041918-BLK1)				Prepared & Analyzed: 19-Apr-17						
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	10.0	5.00	mg/L							
Alkalinity, Total	8.00	4.00	mg/L							
LCS (7041918-BS1)				Prepared & Analyzed: 19-Apr-17						
Alkalinity, Carbonate	ND	1.00	mg/L				80-120			
Alkalinity, Bicarbonate	132	5.00	mg/L				80-120			
Alkalinity, Total	108	4.00	mg/L	100		108	80-120			
LCS Dup (7041918-BSD1)				Prepared & Analyzed: 19-Apr-17						
Alkalinity, Carbonate	ND	1.00	mg/L				80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/L				80-120	3.86	20	
Alkalinity, Total	104	4.00	mg/L	100		104	80-120	3.77	20	
Batch 7042007 - General Prep - Wet Chem										
LCS (7042007-BS1)				Prepared & Analyzed: 20-Apr-17						
pH	7.23		pH Units	7.00		103	90-110			
Duplicate (7042007-DUP1)		Source: 1170104	1-04	Prepared & Analyzed: 20-Apr-17						
pH	7.83	0.100	pH Units		7.82			0.128	20	
Batch 7042103 - General Prep - Wet Chem										
Blank (7042103-BLK1)				Prepared & Analyzed: 21-Apr-17						
Chloride	ND	4.00	mg/L							

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7042103 - General Prep - Wet Chem										
LCS (7042103-BS1)				Prepared & Analyzed: 21-Apr-17						
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (7042103-BSD1)				Prepared & Analyzed: 21-Apr-17						
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	
Batch 7042105 - General Prep - Wet Chem										
LCS (7042105-BS1)				Prepared & Analyzed: 21-Apr-17						
Conductivity	498		uS/cm	500		99.6	80-120			
Duplicate (7042105-DUP1)		Source: H701041-01		Prepared & Analyzed: 21-Apr-17						
Conductivity	707	1.00	uS/cm		703			0.567	20	
Batch 7042114 - Filtration										
Blank (7042114-BLK1)				Prepared: 21-Apr-17 Analyzed: 27-Apr-17						
TDS	ND	5.00	mg/L							
LCS (7042114-BS1)				Prepared: 21-Apr-17 Analyzed: 27-Apr-17						
TDS	229	5.00	mg/L	240		95.4	80-120			
Duplicate (7042114-DUP1)		Source: H701021-01		Prepared: 21-Apr-17 Analyzed: 27-Apr-17						
TDS	2260	5.00	mg/L		2310			1.84	20	
Batch 7042613 - General Prep - Wet Chem										
Blank (7042613-BLK1)				Prepared & Analyzed: 26-Apr-17						
Sulfate	ND	10.0	mg/L							

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7042613 - General Prep - Wet Chem										
LCS (7042613-BS1)				Prepared & Analyzed: 26-Apr-17						
Sulfate	20.1	10.0	mg/L	20.0		101	80-120			
LCS Dup (7042613-BSD1)				Prepared & Analyzed: 26-Apr-17						
Sulfate	19.8	10.0	mg/L	20.0		99.0	80-120	1.55	20	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT FARMS Project Number: NONE GIVEN Project Manager: BEN DONAHUE Fax To:	Reported: 04-May-17 14:52

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B704200 - Total Rec. 200.7/200.8/200.2										
Blank (B704200-BLK1)				Prepared: 28-Apr-17 Analyzed: 01-May-17						
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
LCS (B704200-BS1)				Prepared: 28-Apr-17 Analyzed: 01-May-17						
Magnesium	20.7	0.100	mg/L	20.0		104	85-115			
Sodium	6.81	1.00	mg/L	6.48		105	85-115			
Potassium	8.36	1.00	mg/L	8.00		104	85-115			
Calcium	4.07	0.100	mg/L	4.00		102	85-115			
LCS Dup (B704200-BSD1)				Prepared: 28-Apr-17 Analyzed: 01-May-17						
Calcium	4.07	0.100	mg/L	4.00		102	85-115	0.0739	20	
Sodium	6.83	1.00	mg/L	6.48		105	85-115	0.275	20	
Magnesium	20.8	0.100	mg/L	20.0		104	85-115	0.274	20	
Potassium	8.32	1.00	mg/L	8.00		104	85-115	0.396	20	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Celey D. Keene, Lab Director/Quality Manager

EXHIBIT Q

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: ETC Water Station
Project Manager: Ben Donahue
Address: P.O. 5102
City: Hobbs State: NM Zip: 88241
Phone #: 575 393 3194 Fax #:
Project #: Schuber Farms #1 Project Owner: Gary Schubert
Project Name: "
Project Location: "
Sampler Name: Ben Donahue

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Cation / Anion

Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	PRESERV: ACID/BASE	ICE / COOL	OTHER	SAMPLING: DATE	TIME
H701043														
1	Fresh water	C	2	✓									4/12/17	8:00
2	Brine Water	C	2	✓										
3	Monitor Well	C	2	✓										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Relinquished By: Date: 4/20/17 Received By: Jodi Henson
Time: 12:00 PM
Relinquished By: Date: Received By:
Time:
Delivered By: (Circle One)
Sampler - UPS - Bus - Other: #75 0.7°C
Sample Condition: Cool: Yes / No; Intact: Yes / No
CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
garymschubert@gmail.com

1 Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

EXHIBIT Q

SCHUBERT FARMS FACILITY
TABULATED SHEET OF CONNECTIONS AND PIPE

CONNECTION TYPE	SIZE	MODEL	CONSTRUTION	PORT	PSI RATED AT
BALON FLOATING VALVES	4"X 3" X 4"	4R-S32-SE	CARBON STEEL	3"	750
BALON FLOATING VALVES	3" X 3" X 3"	3F-S42-SE	CARBON STEEL	3"	750
BALON FLOATING VALVES	2" X 2" X 2"	2F-S32-SE	CARBON STEEL	2"	750
X HEAVY 2" ELL IPC	2.375"	FIG.No. 02001	CARBON STEEL	2"	2000
X HEAVY 3" ELL IPC	3.375"	FIG.No. 02001	CARBON STEEL	3"	2000
X HEAVY 4" ELL IPC	4.188"	FIG.No. 02001	CARBON STEEL	4"	2000
X HEAVY 2" COLLAR IPC	2.375"	ASTM SA105N	CARBON STEEL	2"	3000
X HEAVY 3" COLLAR IPC	3.375"	ASTM SA105N	CARBON STEEL	3"	3000
X HEAVY 4" COLLAR IPC	4.188"	ASTM SA105N	CARBON STEEL	4"	3000
X HEAVY 2" TEE IPC	2.375"	ASTM SA105N	CARBON STEEL	2"	2000
X HEAVY 3" TEE IPC	3.375"	ASTM SA105N	CARBON STEEL	3"	2000
X HEAVY 4" TEE IPC	4.188"	ASTM SA105N	CARBON STEEL	4"	2000
X HEAVY 2" NIPPLE IPC	2.375"	A106 Sch. 80	CARBON STEEL	2"	2000
X HEAVY 3" NIPPLE IPC	3.375"	A106 Sch. 80	CARBON STEEL	3"	2000
X HEAVY 4" NIPPLE IPC	4.188"	A106 Sch. 80	CARBON STEEL	4"	2000
X HEAVY 1 1/2" X 2" SWEDGE IPC	1.9" x 2.375"	X H	CARBON STEEL	1 1/2" X 2"	2000
X HEAVY 2" X 3" SWEDGE IPC	2.375" X 3.5"	X H	CARBON STEEL	2" X 3"	2000
X HEAVY 3" X 4" SWEDGE IPC	3.5" X 4 1/2"	XH	CARBON STEEL	3" X 4"	2000
X HEAVY 3" CROSS TEE IPC	3.75"	ASTM SA105N	CARBON STEEL	3"	3000
2" VICTAULIC CONNECTOR	2.375"	177N	CARBON STEEL	2"	1000
4" VICTAULIC CONNECTOR	4.188"	177N	CARBON STEEL	4"	1000
2" SDR 11 HDPE POLY LINE	2.375	SDR 11 HDPE	Polyethylene	2"	160
3" SDE 11 HDPE POLY LINE	3 .5	SDR 11 HDPE	Polyethylene	3"	160
4" SDR 11 HDPE POLY LINE	4.5	SDR 11 HDPE	Polyethylene	4"	160
4" SDR 11 TRASDUCER	4.5	SDR 11 HDPE	STEEL / SDR11	4"	160
2" BRADED HOSE	2.375"	PTFE	RUBBER /STEEL	2"	UP TO 5000
3" BRADED HOSE	3.375"	PTFE	RUBBER /STEEL	3"	UP TO 5000
4" BRADED HOSE	4.188"	PTFE	RUBBER /STEEL	4"	UP TO 5000

EXHIBIT R

SHCUBERT FARMS WELL No. 1
BRINE SOLUTION BATTERY
SOUTHWEST OF THE FACILITY

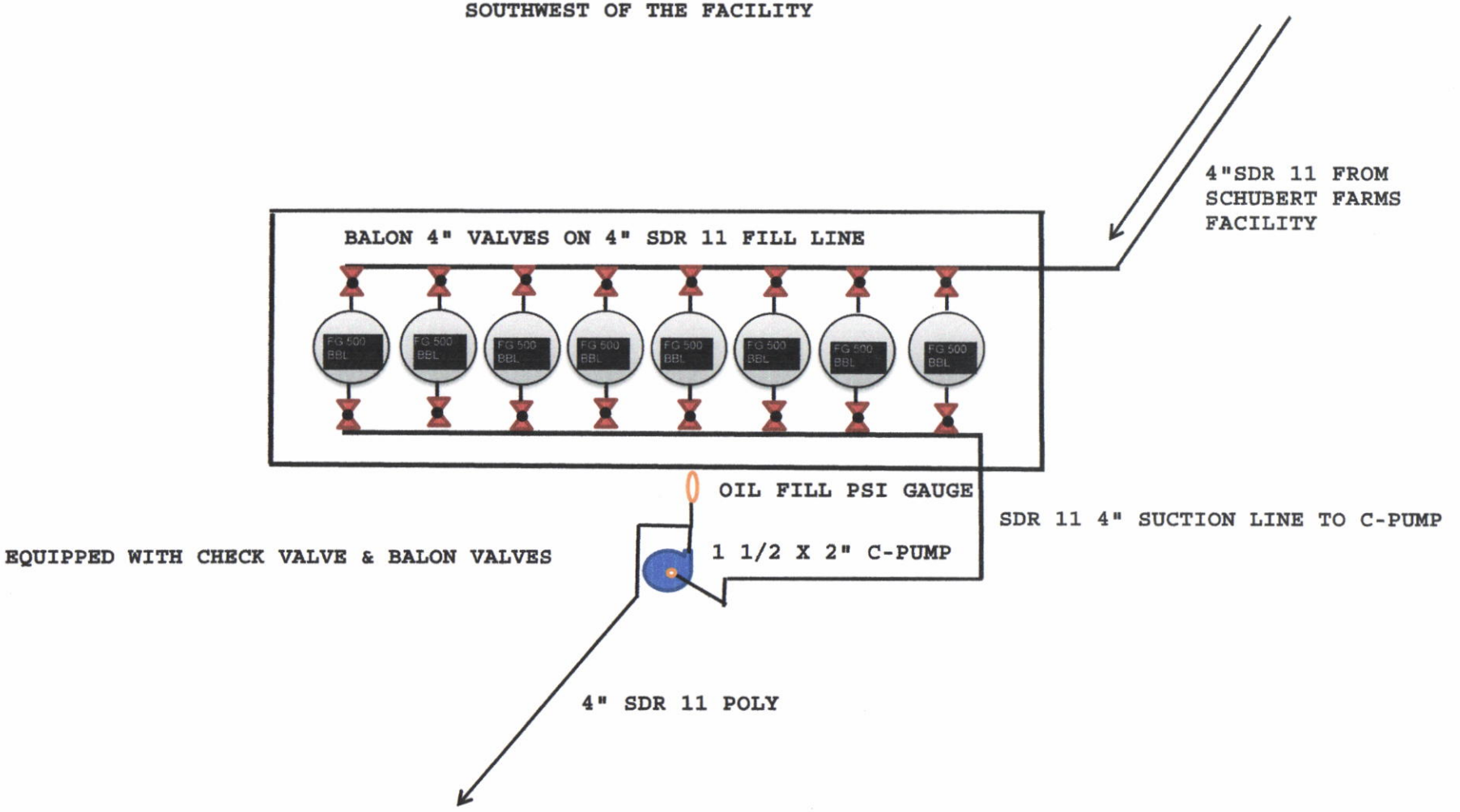
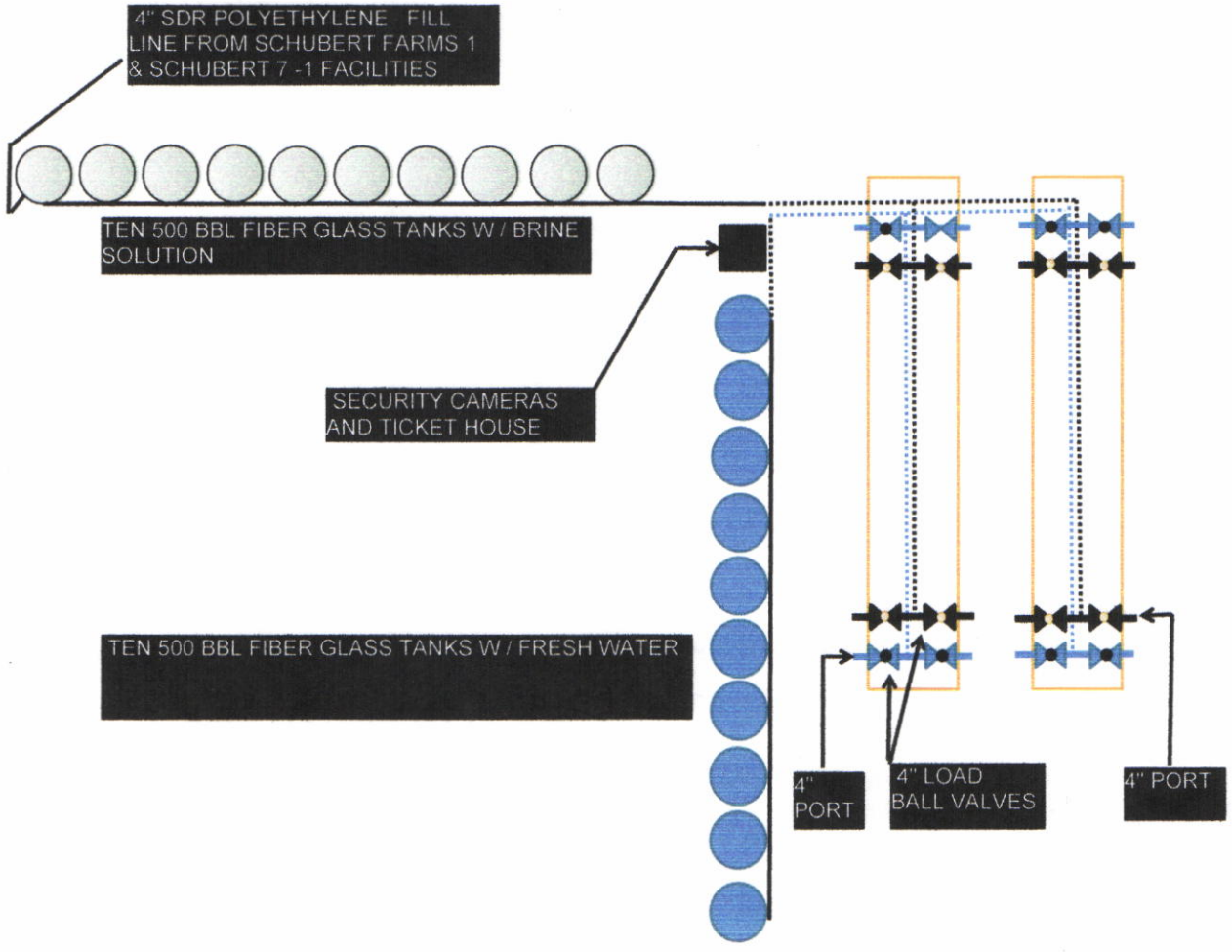


EXHIBIT S

H.R.C., INC.
SCHUBERT 7 WELL No.1
SCHUBERT FARMS WELL No.1

SALES FRESH AND QUALITY BRINE STATION



N

W E

S

NADINE ROAD

EXHIBIT T