

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

NM OIL CONSERVATION
ARTESIA DISTRICT
AMENDED REPORT
AUG 11 2017
RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Percussion Petroleum Operating, LLC 919 Milam St., Suite 2475, Houston, TX 77002		² OGRID Number 371755
³ Property Code 318940	⁴ Property Name Goodman 22	⁵ API Number 30-015-44382
		⁶ Well No. 1H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
C	22	19S	25E		375	NORTH	2136	WEST	EDDY

*** Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
C	23	19S	25E		380	NORTH	2681	WEST	EDDY

9. Pool Information

Pool Name	Pool Code
N. SEVEN RIVERS; GLORIETA-YESO	97565

Additional Well Information

¹¹ Work Type	¹² Well Type	¹³ Cable/Rotary	¹⁴ Lease Type	¹⁵ Ground Level Elevation
N	O	R	P	3471'
¹⁶ Multiple	¹⁷ Proposed Depth	¹⁸ Formation	¹⁹ Contractor	²⁰ Spud Date
N	8,060'	YESO	SILVER OAK DRILLING	10/1/2017
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
SURFACE	12.25	9.625	36	1,215'	600	SURFACE
PRODUCTION	12.25	9.625	36	8,050'	2100	SURFACE

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
13 5/8" Double-Ram, Annular	5,000 psi	250 low/ 3000 high	Shaffer

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.
Signature: *Patrick Wales*

Printed name: Patrick Wales

Title: Drilling Engineer

E-mail Address: pwales@totalenergyservices.us

Date: 8/7/2017

Phone: 432-682-1598

OIL CONSERVATION DIVISION

Approved By:

Raymond H. Podany
Geologist

Title:

Approved Date: 8-14-2017

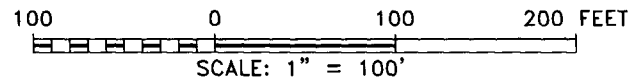
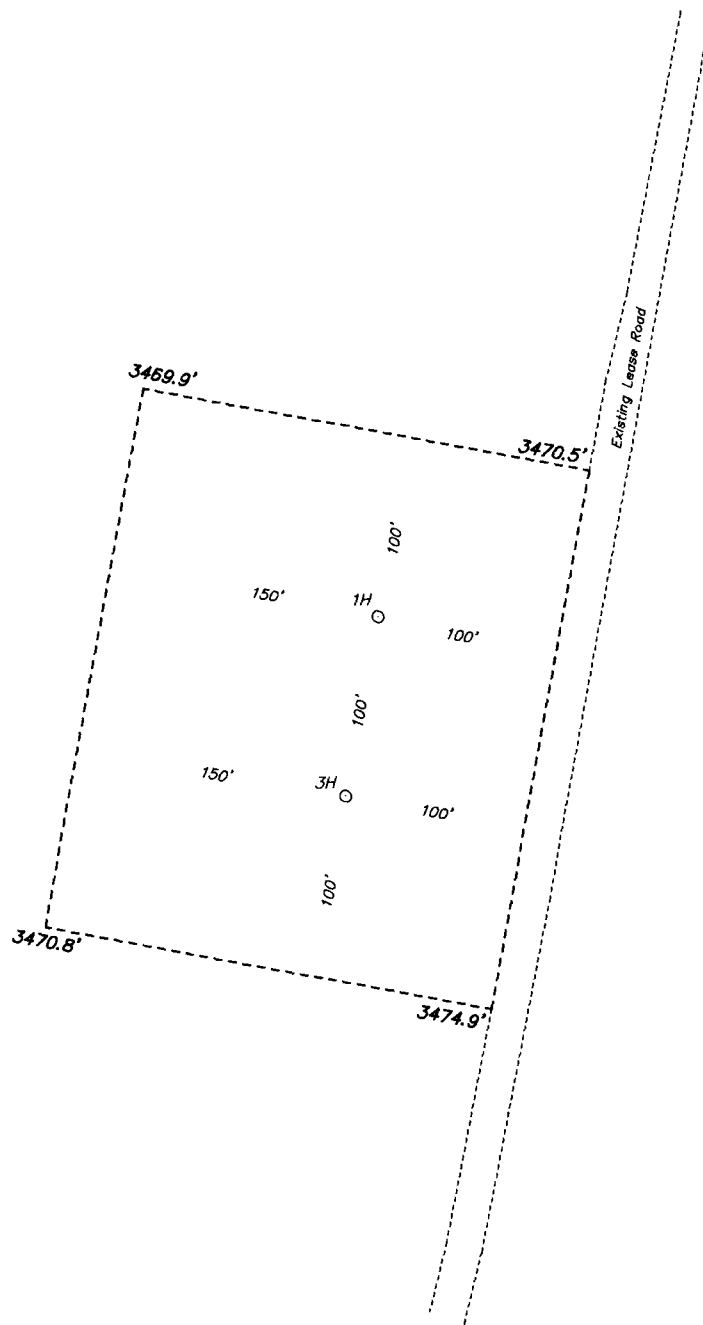
Expiration Date: 8-14-2019

Conditions of Approval Attached

RAB - Circ CMT

RW 8-17-17

**SECTION 22, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



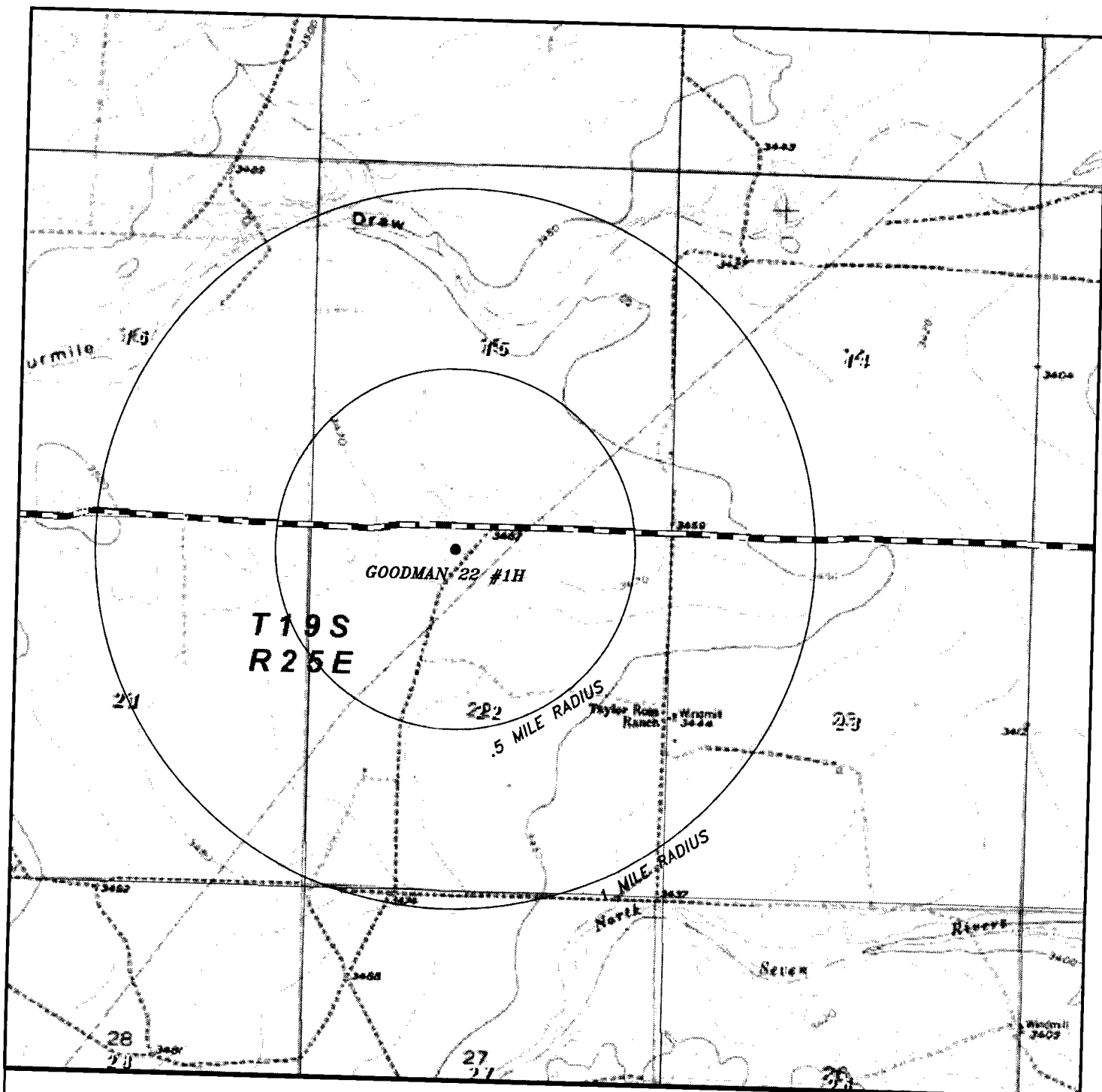
PERCUSSION PETROLEUM OPERATING, LLC

REF: GOODMAN 22 #1H / WELL PAD TOPO

THE GOODMAN 22 #1H LOCATED 375' FROM
THE NORTH LINE AND 2136' FROM THE WEST LINE OF
SECTION 22, TOWNSHIP 19 SOUTH, RANGE 25 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

**basin
surveys**
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in the oilfield

P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basinsurveys.com



GOODMAN 22 #1H

Located 375' FNL and 2136' FWL
 Section 22, Township 19 South, Range 25 East,
 N.M.P.M., Eddy County, New Mexico.



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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

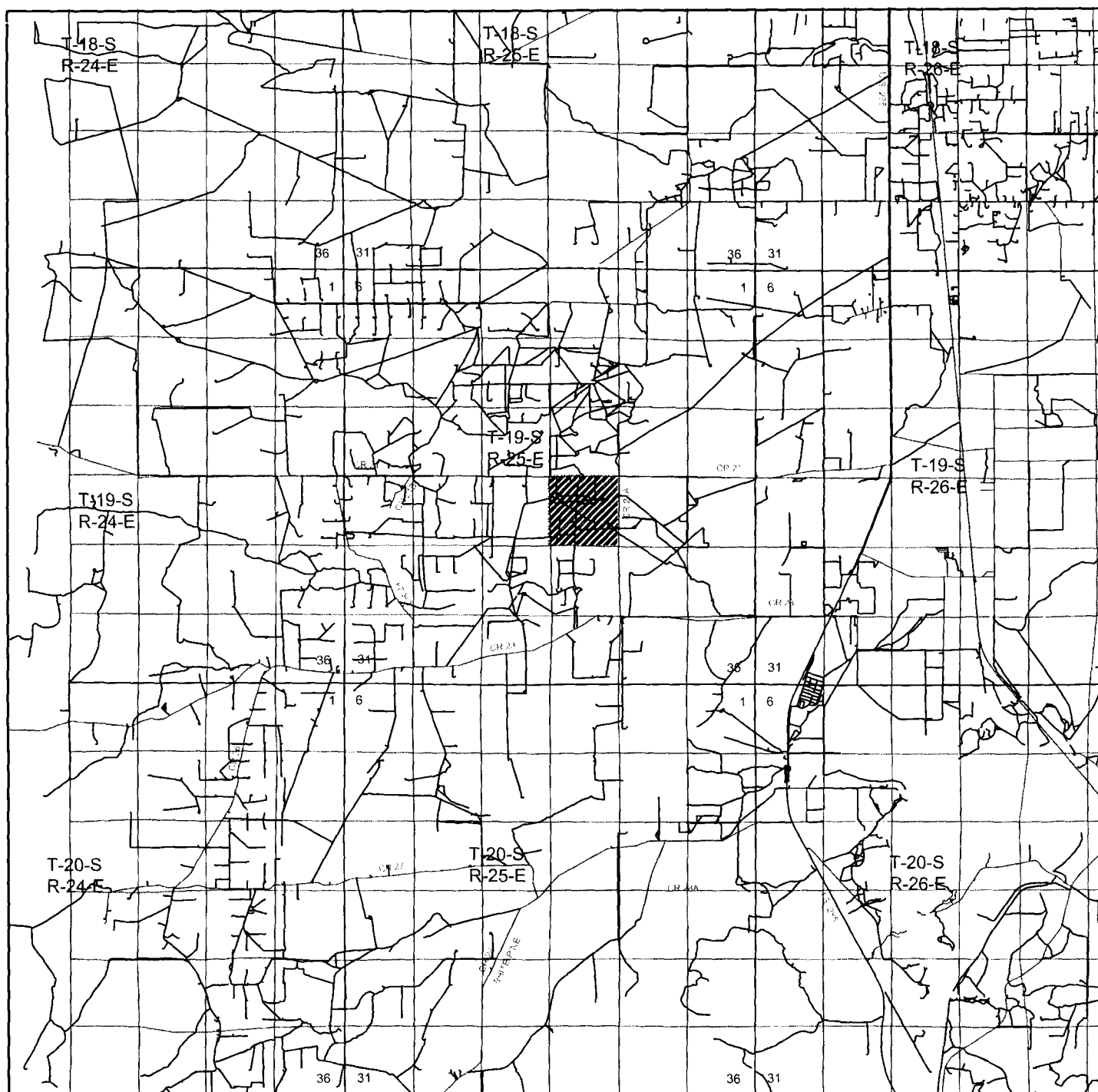
W.O. Number: KJG 33181

Survey Date: 07-31-2017

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



PERCUSSION
 PETROLEUM
 OPERATING, LLC



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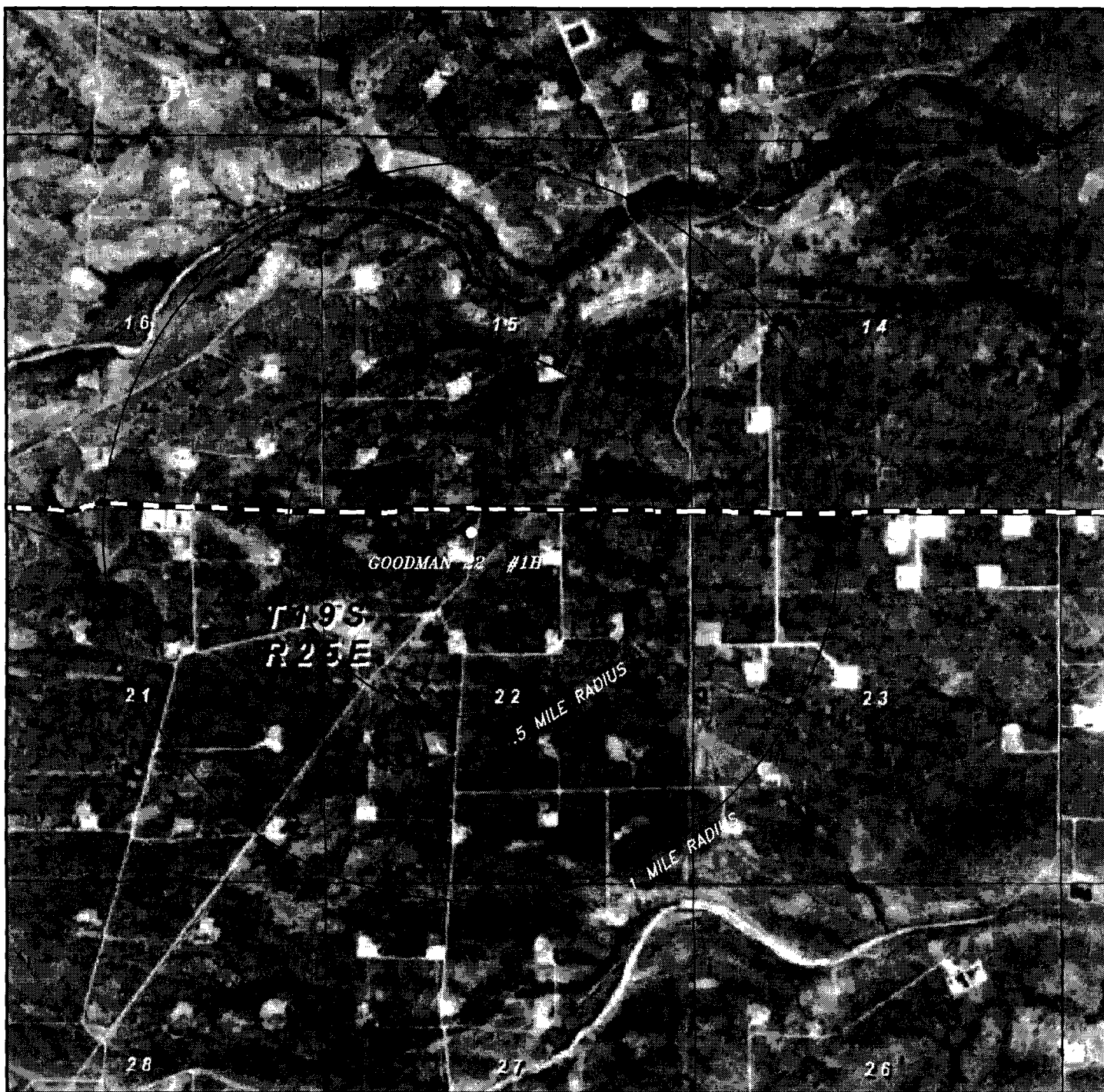
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 SCALE: 1" = 2 MILES

W.O. Number: KJG 33181

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PERCUSSION
PETROLEUM
OPERATING, LLC



Percussion Petroleum Operating, LLC

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 11 2017

RECEIVED

Well: Goodman 1H

Location: **SHL** Section 22, T19S, R25E, 375 FNL, 2136 FWL
Lat: 32.652759° N, Long: -104.474246° W
State Plane NME-3001: N: 601233.5, E: 497968.6

BHL Section 23, T19S, R25E, 380 FSL, 2681 FWL
Lat: 32.652726° N, Long: -104.455420°W
State Plane NME-3001: N: 601214.4, E: 503762.6

County: Eddy

State: New Mexico

Rig: Silver Oak Drilling

Spud Date: Oct-17

AFE Number: 1021

True Vertical Depth: 2,667 ft

Total Measured Depth: 8,060 ft

Elevation: GL = 3,471' KB= 25'

Directions: From the intersection of Highway 285 and Rockin R Red Road go west approximately 3.5 miles turn left (south) onto lease road.

Prepared By: Lelan J Anders

Operations Manager: Lelan J Anders

Engineering: Lelan J Anders

Exploration: C.J. Lipinski

Land: Josh Grisham

DRILLING PROGRAM

CASING DEPTHS:

9-5/8" 32# J-55 LT&C set at **1,213 ft** inside
 12 1/4 open hole, cemented to surface

5 1/2" 17# L-80 BT&C set at **8,050 ft** inside
 8 3/4 open hole, cemented to surface

POTENTIAL PROBLEMS:

0' - 1213' Gravel, Red Beds and Water Sands. Seepage and loses. Tight hole.

1213' - TD Hole cleaning, seepage, and loses.

MUD PROGRAM:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>	<u>Plastic Viscosity</u>	<u>Yield Point</u>
0' - 1213'	FW / Gel	8.4 - 9.2 PPG	36 - 42	NC	3 - 5	5 - 7
Paper and gel sweeps to clean hole						
1213' - KOP'	FW / Cut Brine	8.3 - 9.2 PPG	28 - 30	NC	1	1
Gel sweeps to clean hole and LCM pills for loss circulation. Raise vis to 34 - 40 if needed.						
KOP' - TD'	Cut Brine	8.6 - 9.2 PPG	29 - 32	10 - 12	4 - 5	6 - 10
Salt gel sweeps to clean hole and LCM pill for loss circulation. Only acid soluble LCM below surface casing. Increase vis to 34 - 40 if needed. If drag becomes a problem add Surfac PG. Drill curve and lateral section with XCD Polymer / Cut Brine / Starch system.						
Drill as close to pressure balanced as possible.						
Estimated BHP for the Yeso formation is 1100 psi.						

Mud additions to be coordinated through PPO representative.
This program is only a guide and hole conditions will dictate mud system requirements and changes.

ESTIMATED FORMATION TOPS / LITHOLOGY:

3,471' Ground Level 25' RKB

<u>Formation</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>	<u>Lithology</u>
San Andes		825	2646	Dolomite
Glorieta		2450	1021	Silty Dolomite
Yeso		2586	885	Dolomite
Tubb		3192	279	Dolomite

DRILL STEM TEST:

None

MUD LOGGING:

A one man mud logging unit will be in service prior to spudding well to total depth. Samples in the lateral/pay will be taken every 10'. Mud logger will assist in picking surface casing point. Only authorized personnel will be allowed access to mud logging unit. Mud logger will be in contact with C.J. Lipinski. EOL at 100' FSL is a hard line. Cut short to 120' FSL to avoid crossing hard line. Do not exceed without approval from Lelan J Anders, Operations Manager. Drilling Foreman is to be notified of changes in drilling parameters.

ELECTRIC LINE LOGS

None

DIRECTIONAL SURVEYS:

Straight hole specifications. Maximum deviation from vertical shall be no more than 3° inclination.

We will directionally drill according to the well plan in order to hit our intended landing zone.

We will drill as per directional plan to ~100 ft from lease line enabling us to locate our FTP 330' FNL.

We will run 5 1/2" casing with 2 jt shoe track to TD and cement in place. Our LTP will be 330' FNL.

See directional plan for more details.

THIS IS A HORIZONTAL WELL WITH EXTREMELY TIGHT TOLERANCES. KEEP LELAN ANDEF AND CJ LIPINSKI INFORMED WITH ANY PROBLEMS MAINTAINING TARGET.

Straight Hole Specifications

Well Depth Feet	Maximum Distance Between Surveys	Maximum Deviation From Vertical
0' - 100'		3°
100' - 2,000'	MWD and Motor thru this section of hole.*	10°
2,000' - TD	MWD and Motor thru this section of hole.	

* Depending on directional plan. If vertical hole is used to 1800' MD (surface casing point) then minimum distance between surveys will be 250' MD 3° max deviation from vertical

WELLHEAD EQUIP:

9-5/8" Casing 9-5/8" 3M x 11" 3M SOW
5 1/2" Casing 11" 5M x 7-1/16" 10M Tubing Head

CASING DESIGN:**9-5/8" CASING**

9-5/8" Shoe	Casing Burst:	3,520 psi
1 Jt 9-5/8" 36# J-55 STC	Casing Collapse:	2,020 psi
9-5/8" Insert Float	Casing Tensile:	394,000 lbs
9-5/8" 36# J-55 STC To Surface		

CASING SAFETY FACTORS

	API Recommended Safety Factor	Actual Safety Factor	Scenerio	External Fluids	Internal Fluids
Collapse:	1.125	3.30	Lost Circulation	Mud	None
Burst:	1.125	1.46	Plug Bump	Cement + 2000 psi applied pressure	Mud/Water
Tensile:	1.8	2.80	100k Overpull	Mud	Mud

CENTRALIZER PLACEMENT

Stop collar 10 feet above shoe with centralizer. One on first collar and every forth collar to surface, or as required by the BLM.

5 1/2" CASING

5 1/2" Shoe	Casing Burst:	7,740 psi
2 Jts 5 1/2" 17# L80 BTC	Casing Collapse:	6,280 psi
5 1/2" Float Collar	Casing Tensile:	348,000 lbs

5 1/2" 17# L80 BTC Casing To Surface

CASING SAFETY FACTORS

	API Recommended Safety Factor	Actual Safety Factor	Scenerio	External Fluids	Internal Fluids
Collapse:	1.125	3.75	Lost Circulation	Mud	None
Burst:	1.125	2.47	Plug Bump	Cement + 2000 psi applied pressure	Mud/Water
Tensile:	1.8	2.29	100k Overpull	Mud	Mud

CENTRALIZER PLACEMENT

Stop collar 10 feet above shoe with centralizer. One on first collar and every 10 collars to 1200 feet with one centralizer in 9-5/8" casing, or as required by the BLM.

REQUIREMENTS FOR ALL CASING:

Long string casing to be hydro tested before leaving yard.
Thread lock Float Shoe and joint connection between float equipment.
Unload and visually inspect casing, arranging on racks in order of running.
Strap all casing as it is unloaded, threads off. Count all joints on location.
Clean and inspect threads, drift, redope.
Check all casing markings and threads for correctness.
Check crossovers and crossover collars. Have back up collars.
Rope off and mark all casing not to be used.
PPO representative to supervise all casing operations.
Torque casing to optimal value.

CEMENT SCHEDULE:

9-5/8" CASING

Annular Volume: **379.9** cubic ft

Lead Cement: **605.2 sks** Class "C" + 2% CaCl + 0.25 pps Celloflake
Weight 14.8 ppg, Yield 1.32 cfs, Mix Water 6.3 gps.

These volumes based on circulating cement to surface plus 100% excess

If cement does not circulate 1 inch cement to surface.

5 1/2" CASING

Annular Volume: **2053.4** cubic ft

Lead Cement: **494.9 sks** 65/65/6 Class "C"+ 6% gel + 5% salt + 0.25pps Celloflake + 0.2% C41-
Weight 12.6 ppg, Yield 1.97 cfs, Mixing Water 10.84 gps

Tail Cement: **1608.2 sks** Class "C" + 2% CaCl + 0.25pps Celloflake
Weight 14.8 ppg, Yield 1.32 cfs, Mix Water 6.3 gps.

These volumes based on circulating cement to surface plus 50% excess

REQUIREMENTS FOR ALL CEMENT:

Have cement supervisor independently check cement volumes and displacement volumes.
Collect and identify cement sample from each pod.
Minimize out of hole time. Have cement head already installed on casing joint etc.
Run casing at a smooth even pace being certain not to break down well bore.
Plan for unexpected events, plug doesn't bump at target volume, pump or lift pressures off, etc.
Do not over pump displacement volume.
Ensure plug dropped behind good cement. Chase plug with 10 bbls of sugar water.
Weigh cement samples and take wet samples throughout job.

Run material balance at end of each job to ensure water and cement volumes used confirm was mixed at proper weight as designated.

DRILLING PROCEDURE

1. Build road and location as per rig requirements. Install Conductor to 90 ft. (THIS IS A CLOSED LOOP MUD SYSTEM)
2. Notify OCD (Artesia District 2) of rig moving in and tentative spud date.
3. Move in and rig up drill rig. Install valve in conductor pipe. Rig up closed loop system.
4. Order float equipment, Texas Pattern Guide Shoe, centralizers, and 9-5/8" casing to location. Visually inspect casing and arrange on racks in order of running. Rope off and mark all casing not to be used. Count all joints. Strap casing as it is unloaded (THREADS OFF). Inspect casing and check all casing markings and threads for correctness. Inspect and clean threads, redope, and drift casing. Closely inspect any crossover joints and have back up crossover collars on location. PPO supervisor to oversee all casing inspections, drifting, strapping, etc.
5. Drill 12-1/4" hole with fresh water Native Spud Mud to TD of surface hole interval. BHA 12-1/4" bit, bit sub, 12" OD stabilizer, 1- 8" drill collar, 12" OD stabilizer, 6 - 8" drill collars and 9 - 6" drill collars. Directional surveys as per DD and MWD company to stay on well plan to TD of surface hole.
6. Notify OCD of TD and cement job.
7. Pump 2 high vis sweeps and circulate hole clean prior to pulling out of hole.
8. Pull out of hole and record any tight spots on IADC report. SLM out of hole. Make sure cement crew will be on location and rigged up before casing is on bottom prior to starting out of hole. Keep hole full.
9. Rig up casing crew and run 9-5/8" casing per casing design. Fill casing every 5 joints and circulate one joint off bottom. Run centralizers per design or as required by NMOCD. Wash to bottom if necessary.
10. Rig up cementers and test lines to 2000 psi. Have cement supervisor INDEPENDENTLY check cement volumes and displacement volumes. Collect and identify cement sample from each pod. Minimize out of hole time.
11. Circulate casing for 3 casing volumes minimum or until hole cleans up. While circulating hold final job meeting with cement company going over cement volumes, mixing water requirements, displacement volumes, pump pressure and rates, and contingency plans for unexpected events (i.e. plug does not bump at theoretical displacement volume etc.). Add 100% excess to calculated cement volume required. Don't over displace. Top out cement to surface with 1" tubing IF necessary.
12. Pump 20 barrels fresh water spacer ahead and pump cement volume per cement design for 9-5/8" casing and PPO representative. Bump plug to 500 psi over pump pressure. Drop plug in good cement. Record cement to surface on IADC report.
13. Hang casing in full tension. Close cement head for 8 hours.
14. WOC 8 hours before cutting off and 24 hours before drilling out per NMOCD rules.
15. Cut off casing and install 9-5/8" 3M x 11" 3M SOW A-section.
16. Nipple up BOP and test to 500 psi low and 3000 psi high with an independent test company before drilling out.
17. Pick up 8-3/4" bit, and directional drilling BHA. Trip in hole, tag cement and record on IADC report. Test casing to 1000 psi. Drill out float collar and float shoe with fresh water / cut brine 8.3 - 9.2 ppg to a depth Increase mud vis to 30-34 for hole cleaning and samples if needed. Mud program is a guide and hole conditions will dictate mud system requirements or changes. All mud additions will be coordinated through PPO representative.
18. Order float equipment, guide shoe, centralizers, and 5 1/2" casing to location. Check for proper size, type, and thread of casing.

Visually inspect casing and arrange on racks in order of running. Rope off and mark all casing not to be used. Count all joints. Strap casing as it is unloaded (THREADS OFF). Inspect casing and check all casing markings and threads for correctness. Inspect and clean threads, redope, and drift casing. Closely inspect any crossover joints and have back up crossover collars on location. PPO supervisor to oversee all casing inspections, drifting, strapping, etc. Casing to be hydro tested before leaving yard. Make sure there are a minimum of 2 marker joints in the string (on at KOP and one mid way through planned lateral

19. Drill curve and lateral section with XCD Polymer / Cut Brine / Starch System. Increase viscosity as needed using oil and LF-24 to help keep hole slick to TMD if needed. Mud program is a guide and hole conditions will dictate mud system requirements or changes. All mud additions will be coordinated through PPO representative. Drilling breaks and hole problems will be coordinated with drilling foreman and Engineer. Artesia and Houston offices will be advised daily or as needed.
20. Notify NMOCD of TD and cement job.
21. Pump high vis sweep and circulate hole clean.
22. Pull out of hole and record any tight spots on IADC report. SLM out of hole. Make sure cement crew will be on location and rigged up before casing is on bottom prior to starting out of hole. Keep hole full.
23. Rig up casing crew and run 5 1/2" casing per casing design. Fill casing every 10 joints and circulate casing at bottom of 9-5/8" casing and 1 joint off bottom. Run centralizers per design or as required by the NMOCD. Wash to bottom if necessary. Record any fill on IADC report.
24. Rig up cementers and test lines to 2000 psi. Have cement supervisor INDEPENDENTLY check cement volumes and displacement volumes. Collect and identify cement sample from each pod. Minimize out of hole time.

25. Circulate casing on bottom for 6 times casing volume minimum or until hole cleans up. While circulating hold final job meeting with cement company going over cement volumes, mixing water requirements, displacement volumes, pump pressure and rates, and contingency plans for unexpected events (i.e. plug does not bump at theoretical displacement volume etc.). Add 50% excess for cement volumes required. Don't over displace.
26. Pump 20 barrels fresh water spacer ahead and pump cement volume per cement design for 5 1/2" casing and PPO representative. Bump plug to 500 psi over pump pressure. Drop plug behind good cement. Chase plug with 10 bbls sugar water or as directed by Record cement to surface on IADC report.
27. Hang casing in minimum tension needed for pack off on wellhead. Close cement head for 8 hours.
28. WOC 8 hours before cutting off per BLM rules.
29. Nipple down BOP's and cut off casing and install 7" 10M x 11" 3M tubing head with 2 x 1-13/16" valves on one side and blind ca and BR plug on other side. Install with a blind flange and needle valve for completions.
30. Clean and jet pits. Release rig.
31. MAKE SURE LOCATION IS CLEAN BEFORE YOU LEAVE!!

REQUIREMENTS

1. All drill pipe and drill collars to be inspected by PPO representative and a total count of all joints on location.
2. Long string to be hydro tested before leaving yard.
3. Check all casing on location. Threads, size and weight.
4. All casing to be torqued to optimal torque.
5. All shoe tracks to be thread locked.
6. Mud Logger will tell what footage to catch samples.
7. Keep bit record and grade bits.
8. Check all float equipment for correct size and threads.
9. Sign and keep copies of field tickets to turn in to office.
10. Notify all State and Federal offices of events and record in morning report. (Date / Time / Name Of Person Talked To).
11. Check and make sure all bond coating and centralizers are in proper places.
12. PPO supervisor to be sure all casing tallies are correctly done.
13. PPO supervisor to check and ensure drill pipe tally is correct.
14. Record release dates of equipment on location.
15. Pre job safety meeting with all companies before job begins.
16. On rig floor when picking up BHA and making up float equipment.
17. Witness all testing and cement jobs.
18. Make sure that everything that is reported on IADC is correct.
19. Make sure all mud is correctly mixed by rig crews.
20. All accidents to be reported to office ASAP and a accident form sent in to office within 24 hours.
21. All trash is off location and lease road is clean at all times.
22. All records are kept as TIGHT HOLE and are not released.
23. Well record is sealed and sent to Artesia Office or is delivered to PPO supervisor to Artesia Office.

VENDOR LIST

<u>COMPANY</u>	<u>SERVICE</u>	<u>CONTACT NAME</u>	<u>CONTACT NUMBER</u>
TBD	Drilling Rig		
TBD	Directional Company		

TBD	Mud
TBD	Cement
NA	DST
TBD	PVT's & Rig Monitor
TBD	Mud Logging
TBD	Conductor
TBD	Closed Loop System
TBD	Casing Crew & LD Machine
TBD	Location & Road
TBD	Stabilizers
TBD	Float Equipment
TBD	Open Hole Logging
TBD	H2S Equipment
TBD	Location & Trash Trailers
TBD	Living Quarters
TBD	Welder
TBD	Forklift & Trucking
TBD	Water
TBD	Rotating Head

PERSONNEL LIST

TBD, Drilling Foreman

Cell

Lelan J Anders, Engineering/Operations

Office 713-429-1291

Cell 281-908-1752

C.J. Lipinski, Geology

Office 713-429-5282

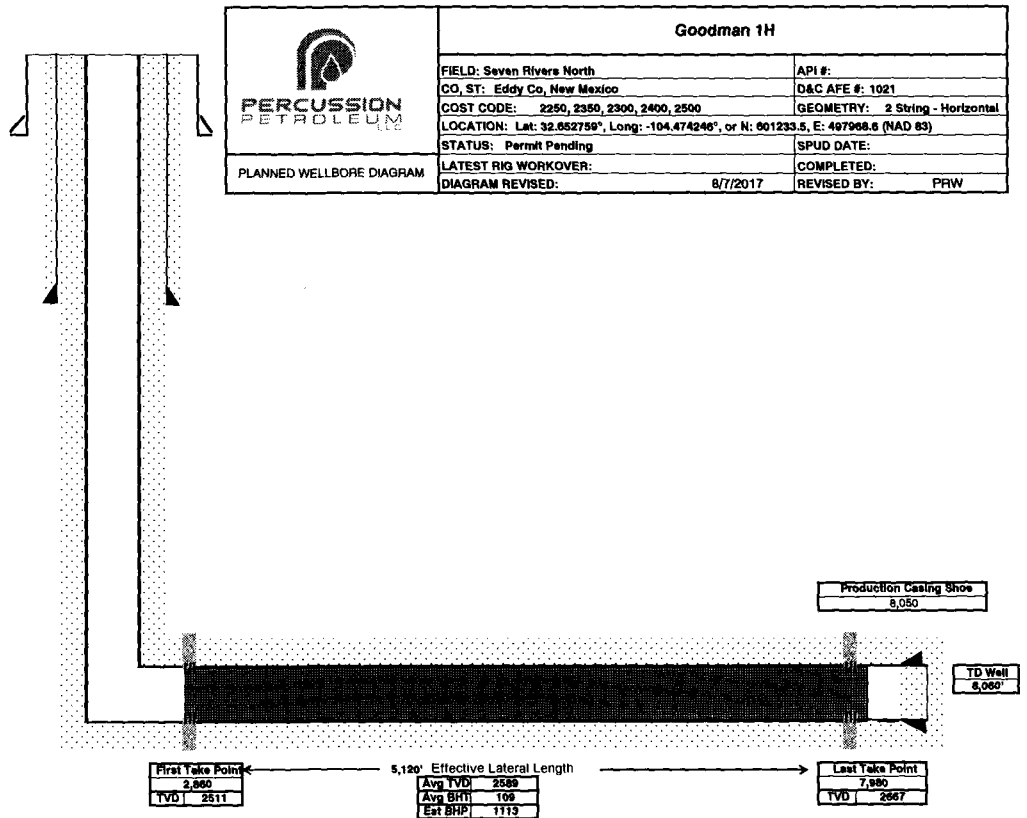
Cell 262-894-2811

Josh Grisham, Land

Office 713-589-2337

Cell 979-417-6858

Depth	Hole Size	Casing Data	Lithology	Fluid	Cement
90'		20" 94# H-40		8.4 ppg FW Gel and Gel/LCM Sweeps	Ready-Mix @ Surface
1,213'	12 1/4"	9 5/8" 36# J-55 STC	San Andres Top @ 813'	8.3-9.2 ppg FW Cut Brine Gel Sweeps and LCM Pills as needed	TOC @ Surface 100% Excess
8,060'	8 3/4"	5 1/2" 17# L-80 BTC	Glorieta Top @ 2,438' TVD Yaso Top @ 2,574' TVD	8.3-9.2 ppg FW Cut Brine Gel Sweeps and LCM Pills as needed (only acid soluble LCM)	TOC @ Surface 50% Excess



Percussion Petroleum
Goodman 1H

ESTIMATED FORMATION TOPS / LITHOLOGY: -813' KB
3,459' Ground Level 25'

<u>Formation</u>	<u>TVD</u>	<u>SS</u>	<u>Lithology</u>
San Andes	813'	2646	Dolomite
Glorieta	2,438'	1021	Silty Dolom
Yeso	2,574'	885	Dolomite
Tubb	3,180'	279	Dolomite