

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-34096
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator CHEVRON U.S.A. INC.		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705		7. Lease Name or Unit Agreement Name C.H. WEIR "A"
4. Well Location Unit Letter: F 2510 feet from NORTH line and 2225 feet from the WEST line Section 12 Township 20S Range 37E NMPM County LEA		8. Well Number 20
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 4323
		10. Pool name or Wildcat SKAGGS; DRINKARD

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 ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐

☒ OTHER: ADD DRINKARD PERFS & ACIDIZE

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

CHEVRON U.S.A. INC. INTENDS TO ADD DRINKARD PERFS & ACIDIZE.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, AND WELLBORE DIAGRAM.

DURING THIS PROCESS WE PLAN TO USE THE CLOSED LOOP SYSTEM WITH A STEEL TANK AND HAUL TO THE REQUIRED DISPOSAL, PER THE OCD RULE 19.15.17.

Spud Date:

Rig Release Date:

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

SIGNATURE Denise Pinkerton TITLE REGULATORY SPECIALIST

DATE 12/15/2014

Type or print name DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer

DATE 12/19/14

Conditions of Approval (if any):

DEC 22 2014

Geological Assessment
Weir C H A #20
10/3/14

Well Name:	Weir C H A #20	API#:	3002534096
Location:	T20S, R37E, Sec. 12	Geologist:	Skyler
County:	Lea	Engineer:	Prasanna
State:	NM	FMT:	Eunice

EXECUTIVE SUMMARY

There is opportunity to add perfs in the Drinkard and Tubb formations in this well with the Drinkard being an area of considerable interest.

WELL HISTORY

This well was originally drilled in 1997 and completed in the Silurian and Pennsylvanian. In the beginning of 1998 the lower portion of the well was plugged and the well was recompleted in the Drinkard and has since cum'd 57,082 BO, 1,176,866 MCFG, and 55,288 BO as of 12/31/2013.

JUSTIFICATION

This well has only been completed in a portion of the Drinkard while surrounding wells have been completed thought the entire Drinkard Formation. Some of the surrounding wells have cum'd 155,508 BO, 3,422,757 MCFG, and 47,457 BO (3002527398); 156,233 BO, 2,524,327 MCFG, and 13,919 BO (3002529207); 118,084 BO, 2,185,353 MCFG, and 47,478 BO (3002529686); and 110,646 BO, 596,102 MCFG, and 14,993 BO (3002520964). There are still zones within the Drinkard that show porosity on the wireline logs, oil shows on the mud logs, and calculate low water saturations. The Tubb also had good potential based on the wireline and mud logs, calculated water saturations, and offset production.

ISSUES

The open hole logs are off by a depth of 9 feet and the mud log is off by a depth of 25 feet in the zone of interest. The open hole logs were depth corrected to the Depth Correlation Log using gamma ray signatures. The mud log was corrected to the open hole logs using drilling rate, porosity, and gamma ray signatures. This is also a deviated well bore. A deviation survey was created from the well files and applied to the well in Petra. Some of the selected perf intervals in the lower Drinkard are very close to a bridge plug and the wellbore may be obstructed with cement.



WELL NAME: C H WEIR A No. 020

API #: 30-025-34096 CHEVNO: BR7378

OPERATOR: Chevron Midcontinent, L.P.

LOCATION: 2510 FNL & 2225 FWL Sec: 12 Township: 20S Range: 37E

COMPLETION: Jan 9, 1998

The purpose of this project is to add perfs (increase the perf density) using Gas Gun in the Drinkard formation, followed by an Acid stimulation using rock salt. This procedure is meant to be a guide only. It is up to the WSM, Workover Engineer and Production Engineer to make the decisions necessary to do safely what is best for the well. PLEASE REFER TO THE H₂S SHEET AND TAKE ALL NECESSARY PRECAUTIONS TO MITIGATE H₂S AND ANY OTHER IDENTIFIED RISKS.

Contacts:

Prasanna Chandran (PE) 432-687-7727, 432-250-8988 (C)
Bob Bielenda (PE) 432-687-7877, 432-215-7839 (C)
Danny Hunt (OS) 575-394-1242, 817-526-2322 (C)
Bobby Hill (PTTL) 575-394-1245, 575-631-9108 (C)
Clarence Fite (ALCR) 575-394-4001, 575-390-9084 (C)
Kevin Jones(WE) 432-687-7388, 575-631-4407 (C)
Victor Bajomo (DS) 432-687-7953, 432-202-3767 (C)
Gabriel Garcia (LWSM) 575-390-7220 (C)
Darryl Ruthardt (LWSM) 575-390-8418 (C)
Dustin Anderson (Petroplex) 432-631-5183 (C)

Wellbore Information:

Surface Casing – 9 ⁵/₈" 36 # K - 55 set @ 1400' w/ 400 sks (TOC 36)
Production Casing – 7", 23#, L-80 set @ 7,450' w/ 1900 sks followed by 100 sks H neat (TOC Surface).
Liner – 5 ¹/₂" 17#, J-55 set @ 7006'- 9927' w/ 350 sks (Circ to TOL).
PB Depth: 6955'

Existing Perforations:

6,828'-6,902' W/2 JSPF, 124 holes (Drinkard).

PRE-WORK:

1. Complete the rig move checklist.
2. Ensure location is in appropriate condition, anchors have been tested within the last 24 months, and power line distance has been verified to determine if a variance and RUMS are necessary.
3. When NU or performing any operation with an open wellhead (Environmental pan, etc.) ensure the hole is covered to avoid dropping anything downhole.
4. Review H₂S calculations in H₂S tab included.
5. Any equipment installed at the wellbore, including wellhead (Inside Diameter), is to be visually inspected by the WSM to insure no foreign debris or other restrictions are present.



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6. DO NOT Flow back CO₂ (if applicable) to non CO₂ rated vessels!

PROCEDURE:

1. Verify that well does not have surface pressure or ability to flow. If the well has pressure, record tubing and casing pressures on Wellview report.
2. MIRU pulling unit and surface equipment.
3. If there is any casing pressure, bleed off casing pressure to tank. If casing is flowing fluid, pump fluid with a constant known weight down casing to perforations and shut in for 30 minutes (or as required) to obtain stable shut-in surface pressure. Calculate required KW fluid density, weight up and pump kill fluid to kill well as applicable. If kill was required, monitor casing side pressure for 30 minutes to ensure it is dead before proceeding further.
4. NU rod BOP and stripper. Unseat pump and assure well is under control from tubing side. Monitor tubing side for 30 minutes to ensure it is dead.
5. POOH laying down rods and pump. Examine rods for wear/pitting/paraffin. If paraffin is observed, do not hot water treat well to avoid pumping any melted paraffin downhole where it could coat wellbore scale and perforations and impede effectiveness of acid stimulation – send affected tubing and rods off site for necessary cleaning. Send samples of well fluids, hydrocarbon buildup and paraffin (if any) from rods and pump to Petroplex Acidizing Inc. for use in determining whether any additional stimulation chemical additives or treatment could be required to optimize proposed stimulation performance.
6. **Caliper elevators and tubular EACH DAY prior to handling tubing/tools and anytime size changes (Use elevator change out log as well). Note in JSA when and what items are calipered within the task step that includes that work.**
7. Monitor well for 30 minutes to ensure it is dead.
8. ND wellhead, unset TAC, NU **Chevron Class III RSRA configured 7-1/16" 5M** remotely-operated hydraulically-controlled BOP, **2-7/8"** pipe rams over blind rams (usually pipe rams on bottom to allow a hang off and close blinds above). NU Environmental pan.
9. RU floor and POOH w/hanger and 1 joint 2 7/8" tubing. PU 7" test packer for 7", 23# casing and RIH w/ test packer to approximately 25', set packer and test BOPE to **250/1000** psi. Record test pressures in Wellview. Release and LD test packer and make up original top joint of 2 7/8" tubing back to tubing string. Mobilize ~7000' of 2 7/8", 6.5#, L-80, EUE-8rd workstring to location for drill out and stimulation work. Mobilize foam air package to location.
 - Keep the charted test of the BOP supplied by the vendor for the entire job.

Caliper elevators and tubular handling equipment EACH DAY prior to handling tubing/tools. Note in JSA when and what items are calipered within the task step that includes that work.

10. Mobilize tubing inspection equipment and personnel. Rig up vertical scan tool and POOH scanning 2 7/8" production tubing. Keep (stand back if able) yellow band only (25% or less wall loss), LD and discard all non-yellow band joints. If able to stand back inspected production tubing, rope off stood back production tubing to keep it separate from workstring.



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Strap production tubing and equipment out of hole to verify depths and note footage and well equipment location in Wellview. Send tubing scan report to KJCY@chevron.com.

Assure that any required replacement production tubing, rods and a new pump have been ordered and will be available for re-completion.

11. PU and RIH with 6 1/8" bit crossed over to 2 7/8", 6.5#, L-80, EUE-8rd workstring to 6955'. If fill tagged higher, rig up foam air package and clean out fill to top of cement above 7" CIBP at ~6955'. Mobilize Petroplex Acidizing Inc. to location with 15 barrels X-50 weighted solvent system and pump truck. Rig up and pressure test surface lines and plug valve to **5000** psi and set mechanical pop offs to **5000** psi.
12. Pump 15 barrels of X-50 weighted solvent system into the tubing followed by required volume of fresh water to spot 10 barrels of the X-50 solvent across the Drinkard perms and casing interval from 6955'-6700' OA. Close pipe rams and inject remaining 5 barrels X-50 into perforations. POOH standing back workstring. SDFN while allowing solvent system to soak in and across perforated interval overnight.
13. The next morning, RIH with workstring and SN to approximately 6950'. RU swab and swab back spent solvent from well. RD swabbing equipment and POOH standing back workstring.
14. MIRU Archer wireline unit. Establish radio silence and set up exclusion zone around WL unit. Install lubricator and test to 500 psi against blind rams. Note test results in WellView.
15. RIH with CCI/GR logging tool to 6955'. Pull CCI/GR correlation strip from 6955 to 6200' and tie in GR depths with GR depths from Schlumberger Platform Express Three Detector Density Compensated Neutron/NGT dated 07-Oct - 1997 to generate an on depth GR/CCI strip to perforate against (**note that the CH correlation and CBL logs are not correlated properly to OH log and should not be used for perforation correlation**). POOH with correlating tools.
16. RIH w/slick guns and shoot intervals as indicated below perforating requested intervals from the bottom up. Confirm all shots fired on each spent gun as retrieved and report accordingly. After completing last perforating gun run, make up SRO downhole pressure gauge and RIH taking 5 minute gradient depth checks every 500' into well to maximum depth of 6700' to determine fluid level and reservoir pressure to aid in determining whether gas guns could be effectively run or if fluid environment can be adjusted to optimize gas gun run efficiency. Gas Gun stimulation will be used following perforating if best practice recommended minimum 300' fluid level above gun can be achieved.
 - HAVE GAS GUNS AVAILABLE ON LOCATION in case they can be used for stimulation.
 - GIH w/ 3 1/8" slick Guns, 0.49" entry hole 38.75" penetration, 6 Jspf, 60 deg phasing, 19 gms Owen super good hole charge and perforate following depths as tabulated below (Table-1) as per Archer Wireline Service recommendation.
 - After adding new perforations and obtaining fluid gradient and reservoir pressure data, GIH w/ 3 3/8" Gas Guns and detonate across following depths as tabulated in Table-1.



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Drinkard Perforations:

#	TOP	BASE	INTERVAL
1.	6732	6744	13
2.	6763	6767	5
3.	6794	6799	6
4.	6804	6808	5
5.	6812	6815	4
6.	6817	6820	4
7.	6821	6824	4
8.	6906	6911	6
9.	6915	6919	5
10.	6926	6932	7
Total			59

Table -1

Best Practices recommend by The GasGun, Inc.

- ☞ Vendor recommends a minimum fluid column of 300' above the GasGun tool when fielded. The mass of the fluid column helps to dampen the charge and force the energy out into the formation directly adjacent to the tool.
- ☞ Do not use Gas Guns in a well that has a fluid column all the way to surface with pressure control equipment at surface – adjust FL through use of appropriately-weighted brine. *Make sure to have a 100+ feet of gas/air cushion between the top of the fluid column and the surface pressure control equipment. Failure to have a gas cushion can result in a water hammer effect that could damage surface equipment.
- ☞ When using gas gun above the top of a bridge plug, if possible we should dump cement on the plug prior as to reduce the chance of dislodging the plug.

17. After completion of last Gas Gun run, POOH, RD lubricator. RD and release wireline unit.

18. MIRU Hydrotesters.

Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are calipered within the task step that includes that work.

19. PU RIH w/ 10 joints (approx. 300') of 2 7/8", 6.5#, L-80, EUE-8rd workstring tubing tail pipe, 7" x 2 7/8" 23#, compression set packer (w/ 2.25" frac hardened profile below packer) on 2 7/8", 6.5#, L-80, EUE-8rd workstring. Drop standing valve and hydrotest workstring and packer to 5000 psi while running in hole to 6685' (packer location). If workstring tested successfully, release hydrotesters from location and retrieve standing valve. If cement bond log with CCL/GR available, adjust setting depth as required to be sure that packer is not being set across a connection.

20. Set packer at approximately 6685' (or as required), load backside and test 7" casing to 500 psi. Notify WOE if casing does not test.



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21. Remobilize Petroplex Acidizing Inc. to location with 4200 gallons (100 barrels) of 20% NEFe HCl (50 gallons per net foot of perforations) with additives as indicated below (or as modified based upon testing of well fluids and hydrocarbon buildup from recovered rods and pump). Pressure test surface lines and plug valve to 5000 psi and set mechanical pop offs to 5000 psi. ***Acid should have enough inhibitor to protect carbon steel for up to 24 hours. Titrate acid on location to ensure correct concentration has been delivered to site (+/- 1.5% of specified concentration is acceptable).*** Confirm additive concentrations for 20% acid

Additive	Amount
I-3, Acid Corrosion Inhibitor	1 GPT
Acetic - G, Glacial Acetic Acid	10 GPT
FENX, Iron Control	40 GPT
EP-3, Non Emulsion Agent (Nonionic)	1 GPT
P-3, Low Surface Tension / Wetting Agent	3 GPT
I-10H, H2S Embrittlement Inhibitor	1GPT

22. Pump 10 barrels of fresh water spacer followed by 8 barrels of 20% NEFe HCl and displace as required to balance (spot) acid across perforations from 6932'-6732' (Drinkard). Slowly pull uphole with workstring to position end of tail pipe at approximately 6700' (~32' above top of Drinkard formation perms) and packer at approximately 6400' (or as required to assure packer is not set across a connection). Set packer, load backside as required and re-test packer and casing to 500 psi while observing a 1 hour acid soak period.
23. After allowing the spot acid to soak for 1 hour, acidize perforations from 6932'-6732' (Drinkard) OA at **6-10 BPM w/ maximum surface pressure of 4500#** with 4200 gallons 20% NEFe HCl and 2250 pounds of rock salt as follows: ***See Petroplex recommended procedure.***

- Pump 1400 gallons (33.3 barrels) 20% NEFe HCl with appropriate additives
- Pump 1125 pounds rock salt diverter in saturated brine/gel solution
- Pump 1400 gallons (33.3 barrels) 20% NEFe HCl with appropriate additives
- Pump 1125 pounds rock salt diverter in saturated brine/gel solution
- Pump remaining 1064 gallons (25.3 barrels) 20% NEFe HCl with appropriate additives

Note that WSM and Stimulation Supervisor are allowed the flexibility to adjust the rock salt volumes accordingly based on well response during treatment.

24. Maintain 250 psi (or as required) on backside thru out acid job to monitor for communication from below packer. **(See Petroplex Procedure)**
25. Flush and overflush treatment with a total of 100 barrels of fresh water while maintaining treatment rate and observing maximum surface pressure limitation of 4500 psi.
26. After pumping 100 barrel fresh water flush and overflush, shut down pumps and record ISIP, 5, 10, & 15 minute SIP's. Allow acid to spend for 2 hours. Open well and flow back/swab back spent treatment fluids to open top tank. Test reactivity of recovered acid load of fluid. If acid is not spent, shut well in 1



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additional hour to allow acid to spend. Recover 100% of load if possible or swab until return indicate formation fluid and not spent acid. **Record oil cut recovered, fluid volumes, and swabbing depths in Wellview.**

27. Release treat/test packer, POOH and stand back 2 7/8" workstring. LD treating packer.
28. Pick up notched collar and RIH on 2 7/8" workstring to 7" CIBP cement plug back depth of approximately 6955' to ensure salt is dissolved across perforated interval and below. If necessary, wash to 6955' with fresh water.
29. Make up 102 barrel scale inhibitor treatment consisting of 100 barrels 8.6 ppg cut brine blended with 2 drums of Baker SCW-358 Scale Inhibitor concentrate. Pick up workstring to position notched collar at 6985'.
30. Displace tubing with scale inhibitor solution and pump 8 barrels of scale inhibitor solution across perforations from 6932'-6732' (Drinkard) overall. Pick up workstring to position notched collar at approximately 6700'. Close 2 7/8" pipe rams and perform scale squeeze into perforations with remaining 94 bbls of scale inhibitor solution at a maximum rate of 5 bpm.
31. Displace and overflush scale inhibitor solution with 100 barrels of 8.6 ppg brine at a maximum rate of 5 bpm.
32. Shut down treating pumps and check tubing and backside pressures to assure no additional well control fluid is required prior to opening pipe rams. If pressures are 0 psi on both sides, open ripe rams and POOH laying down WS.
33. Re-mobilize and RU hydrotesters. PU production BHA, set standing valve in nipple and RIH while hydrotesting original/replacement production tubing and ancillary equipment to 4400 psi (80% of adjusted burst rating with nominal 75% remaining wall thickness yellow band inspection criteria). **(Space out per ALCR Recommendations)**
34. ND BOPE, NUWH. Retrieve standing valve.
35. RIH w/ new pump and original/replacement rods **(Per ALCR Rod design)**
Contact appropriate Field Specialist to remove locks.
36. Check pump action with pumping unit.
37. Clean location, RDMOPU. Notify ALCR and production personnel workover has been completed. Complete Workover Ownership Form, turn well back to production (contacts on first page). **Make sure to send completed Workover Ownership Form to KJCY@Chevron.com.**

STANDARD GUIDELINES

Maximum Anticipated H2S Exposures (RRC H9 / NM Rule 36)

All personnel on location must be made aware of each of the following values (values vary by field):

**Maximum anticipated amount of H2S that an individual could be exposed to is 2,400 ppm
at the maximum anticipated escape volume (of wellbore gas) of 220 MCF/D**

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Add perf and Acidize and SS Job (Drinkard)

10/22/14



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100 ppm Radius of Exposure is 69 feet.

500 ppm Radius of Exposure is 32 feet.

Elevators

At every tubing size change, the elevators must be calipered and all lifting equipment must be visually inspected for the correct sizing, and rechecked daily. The elevators must also be checked for proper sizing by placing a pony sub in the elevators. Prior to picking up power swivel, caliper and visually inspect elevators and bail on swivel. Checks are to be documented in the JSA and elevator log.

ND/NU

Prior to N/D, N/U operations, if only one mechanical barrier to flow will be in place, visual monitoring of well condition by the WSM is necessary for 30 minutes or more to ensure that the well is static **before** removing or replacing well control equipment. For all deviations to 2B policy, check that MOC for exemption from 2B policy is in place and applicable. During ND/NU operations with only one barrier to flow in-place, constant visual monitoring of well condition **during ND/NU** by the WSM is necessary.

Installed Equipment

Any and all equipment installed at the surface on the wellbore is to be visually inspected (internally) by the WSM prior to N/U to the wellhead by the service provider to ensure no debris or other potential restrictions are present. During any NU operations over an open wellhead (BOP, Environmental pan, etc.), ensure the hole is covered to avoid dropping anything downhole.

Hazard ID

Identify hazards with the crew as they come up during the job. Stop, review and discuss JSAs.

Scale and Paraffin Samples

When removing rods and/or tubing from a well, collect samples of any paraffin and/or scale.

When drilling, note, report and sample significant returns of scale or paraffin, or any other significant material in returns. Assume that samples that come from different areas/environments in the well are different and require a different sample; e.g. top/bottom of well, inside outside of tubing. Always collect enough sets of samples for both Production and D&C Chemical Reps. Send any samples to Chemical Reps, both for:

- 1) Production (many times Baker), and,
- 2) D&C (many times PetroPlex).

Discuss D&C's Chemical Rep's recommendations with Engineering, or simply implement as practical.

Trapped Pressure

Recognize whether the possibility of trapped pressure exists, check for possible obstructions by:

- Pumping through the fish/tubular – this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
- Dummy run – make a dummy run through the fish/tubular with sandline, slickline, e-line or rods to verify no obstruction. If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:
 - Hot Tap at the connection to check for pressure and bleed off
 - Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

Wireline

For all wireline and slickline jobs (except in new, cemented, tested and unperforated casing) install wireline packoff and lubricator. Follow Standard Guideline for installing equipment over wellhead. Test to 250 on the low end, and test on the high end based on SITP or maximum anticipated pressure. Establish exclusion zone around

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Add perf and Acidize and SS Job (Drinkard)

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wellhead area. Observe and enforce radio silence as needed when working with explosives. All wireline tools are to be calipered and documented on a diagram prior to PU and RIH. This is critical information in the event that fishing operations become required.

Proposed Perf Interval: Tubb

<u>Top (md)</u>	<u>Base (md)</u>	<u>Net (ft)</u>	<u>Avg. Porosity</u>	<u>Rt</u>	<u>Rw</u>	<u>Sw</u>	<u>Gas Effect</u>	<u>GR (API)</u>	<u>Additional Comments</u>
6369	6373	4	0.09	12	0.028	53%	No	60	Depth Corrected
6435	6441	6	0.15	8	0.028	40%	Yes	65	Depth Corrected
6444	6447	3	0.14	9	0.028	39%	No	100	Depth Corrected
6450	6452	2	0.17	20	0.028	22%	No	80	Depth Corrected
6465	6483	18	0.19	3	0.028	50%	Yes	55	Depth Corrected
6486	6488	2	0.12	20	0.027	31%	No	40	Depth Corrected
6499	6506	7	0.17	10	0.027	31%	No	35	Depth Corrected
6539	6563	24	0.16	20	0.027	23%	No	45	Depth Corrected
6566	6570	4	0.16	5	0.027	46%	Yes	65	Depth Corrected
6612	6614	2	0.09	10	0.027	58%	No	75	Depth Corrected
6621	6633	12	0.12	55	0.027	18%	No	30	Depth Corrected
6655	6657	2	0.09	9	0.027	61%	No	20	Depth Corrected

Proposed Perf Interval: Drinkard

<u>Top (md)</u>	<u>Base (md)</u>	<u>Net (ft)</u>	<u>Avg. Porosity</u>	<u>Rt</u>	<u>Rw</u>	<u>Sw</u>	<u>Gas Effect</u>	<u>GR (API)</u>	<u>Additional Comments</u>
6741	6753	12	0.12	45	0.027	20%	No	20	Depth Corrected
6772	6776	4	0.13	20	0.027	28%	No	25	Depth Corrected
6803	6808	5	0.15	8	0.027	40%	No	35	Depth Corrected
6813	6817	4	0.17	3	0.026	55%	No	30	Depth Corrected
6821	6824	3	0.14	7	0.026	44%	No	25	Depth Corrected
6826	6829	3	0.13	10	0.026	39%	No	30	Depth Corrected
6830	6833	3	0.15	7	0.026	42%	No	20	Depth Corrected
6915	6920	5	0.19	7	0.026	32%	No	20	Torturous borehole, log readings less reliable
6924	6928	4	0.19	5	0.026	38%	No	35	Torturous borehole, log readings less reliable
6935	6941	6	0.18	15	0.026	23%	Yes	20	Torturous borehole, log readings less reliable
6945	6952	7	0.15	5	0.026	48%	No	30	Torturous borehole, log readings less reliable
6962	6984	22	0.15	5	0.026	51%	No	25	Torturous borehole, log readings less reliable



CH Weir #20 (Drinkard) (Current Wellbore Diagram)

Eunice FMT - FLD-SKAGGS

Well Data				Casing and Liner Data									
Well Type	Well #	API No.	Reservoir	Size (in)	Wt (lb/ft)	Grade	Top MD- ft	Bottom MD- ft	Csg Type	TOC			
Oil	CH Weir #20	30-025-34096	Drinkard	9 5/8	36	K-55	0	1400	Surface	36			
First Completed	Cost Center	Chevron Ref. No.	WBS #	7	23	L-80	0	7,450	Production	Surface			
9-Jan-98	UCL211300	BR7378		5 1/2	17	J-55	7006	9,927	Liner	7006			
Plug Back-Depth(ft)	Total Depth - (ft)	Production Method	Status										
6,955	9,927	Rod Pump	S/in										
Location: 2060 FSL 900 FWL				Tubing Data									
Field	County	State	Township	Size (in)	Wt (lb/ft)	Grade	Conn	Top (ft)	Bottom MD (ft)	TVD (ft)	Comments		
FLD-SKAGGS	Lea	New Mexico	20S										
Range	Section	GPS (NAD27) - (Long, Lat)											
37E	12	N 32° 35' 16.548", W -103° 12' 21.744" (NAD27)											
Wellhead and Tree Data													
Item	Maker	Type	Size (in)	Part No.	Rating (psi)								
MDBRT (ft)	TVDBRT (ft)	Well Schematic		Description		Min ID (")	Max OD (")	Drift (")	Length	Comments			
21				Original KB to Tubing Head Flange					21				
1407.87				Hole Size: 12 1/4", 9 5/8" Csg, 36#, K-55		8.921	9.625	8.764	1407.87	(21-1407.87)	(Surface Casing info)		
				Cemented W/400 Sks Class C W/4% GEL						TOC-36	(Cement Info.)		
				2% CaCl2 (13.5 ppg, 1.74 CF/S); F/B 200						Did not circulate cement			
				sack class C W/2% CaCl2 (14.8 ppg, 1.34 CF/S)									
2097				Hole Size: 8 3/4", 7" Csg, 23#, L-80, K-55		6.366	7.000	6.241	2,076	(21-2097)	(Production Csg info)		
				Tubing String Quantity (Top-Bottom Depth) Desc						<div>This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WOI Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.</div>			
				3 @ (21-47) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347									
				203 @ (47-6410) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347									
				1 @ (6410-6414) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347									
				10 @ (6414-6732) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347									
				1 @ (6732-6734) Tubing Anchor-Mechanical 7.000 Ekler B-									
				3 @ (6734-6830) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347									
				2 @ (6830-6833) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift - Internal									
				Plastic Ctg-TK-99-									
				1 @ (6893-6894) Seat Nipple - Standard (2.875) Cup Type-									
				1 @ (6894-6896) Perforated Tubing Sub 2.875-									
				1 @ (6896-6930) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347									
				1 @ (6930-6931) Bull Plug (Unknown Type) - 2.875 - Bare-									
				Rod String Quantity (Top-Bottom Depth) Desc									
				1 @ (21-47) 1.500 (1 1/2 in.) Spray Metal x 20-									
				1 @ (47-49) 1.000 (1 in.) N-78 (D) x 2 Rod Sub-									
				1 @ (49-53) 1.000 (1 in.) N-78 (D) x 4 Rod Sub-									
				85 @ (53-2178) 1.000 (1 in.) N-78 (D) x 25 Rod-									
				38 @ (2178-4628) 0.875 (7/8 in.) N-78 (D) x 25 Rod-									
				78 @ (4628-6578) 0.750 (3/4 in.) N-78 (D) x 25 Rod-									
				12 @ (6578-6878) 1.500 (1 1/2 in.) K x 25 Sinker Bar-									
				1 @ (6878-6882) 1.000 (1 in.) N-78 (D) x 4 Rod Sub - Rod Guides-Molded (3 per rod)-									
				1 @ (6882-6906) Rod Pump (Insert) (NON-SERIALIZED) - 25-150-R X BC -24-6 (Bore = 1.50)-									
				1 @ (6906-6916) Gas Anchor (Rod) 1.250 OD x 10-									
				6,828'-6,902' W/2 JSPF, 124 holes (Drinkard)									
6,955				Cement on top of bridge plug					16				
6,971				Bridge Plug					4				
6,975													
7,006													
7,485				Hole Size: 8 3/4", 7" Csg, 23#, L-80-5388'		6.366	7.000	6.241	5,388	(2097-7485)	(Production Csg info)		
				1st stage w/500 sacks 50/50 POZ Class H w/2% gel						TOC-Surface, Circ 133 sks			
				5% salt, 1/4# Flocele (14.2 ppg, 1.35 CF/S)									
				2nd stage w/1400 sacks 35/65 POZ Class H w/6% gel									
				5% salt, 1/4# Flocele (12.8 ppg, 1.94 CF/S)									
				followed by 100 sacks H neat (15.6 pg, 1.18 CF/S)									
				7810 -7828 Perf w/ 2jspf Isolate (penn)									
7875				5 1/2 CIBP (7,875'-7,879')					4				
7879				7902 - 7910 w/2 jspf Isolate (penn)									
				8021'-8024' w/2 jspf Isolate (penn)									
				8028'-8036' w/2 jspf Isolate (penn)									
				8056'-8067' w/2 jspf Isolate (Silurian)									
8426				Dumped 20' cement on top of plug					20				
8446				CIBP					4				
8450				8471'-8528' w/2 jspf Isolate (Silurian)									
				Hole Size: 6 1/8", 5 1/2" Csg, 17#, J-55 SLX-Liner		4.892	5.500	4.767	2,921	TOC-7,006'	(Production Csg info.)		
				set w/350 sks Class H W/ .4% D800, .2% D65,						(Cement Info.)			
				.2%D46, .6%D156 (15.6 ppg, 1.18 CF/S).									
9,927				Plug Back Total Depth/ TD									
Prepared by:		Prasanna Kumar Chandran		Checked By:				13-Jul-13		Version: 1			



CH Weir #20 (Drinkard) (Proposed Wellbore Diagram)

Eunice FMT - FLD-SKAGGS

Well Data					Casing and Liner Data																																										
Well Type	Well #	API No.	Reservoir	Size (in)	Wt (lb/ft)	Grade	Top	Bottom	Csg Type	TOC																																					
Oil	CH Weir #20	30-025-34096	Drinkard	9 5/8	36	K-55	0	1400	Surface	36																																					
First Completed	Cost Center	Chevron Ref. No.	WBS #	7	23	L-80	0	7,450	Production	Surface																																					
9-Jan-98	UCL211300	BR7378		5 1/2	17	J-55	7006	9,927	Liner	7006																																					
Plug Back-Depth(ft)	Total Depth - (ft)	Production Method	Status																																												
6,955	9,927	Rod Pump	S/in																																												
Location: 2060.FSL-900.FWL					Tubing Data																																										
Field	County	State	Township	Size (in)	Wt (lb/ft)	Grade	Conn	Top (ft)	Bottom	Comments																																					
FLD-SKAGGS	Lea	New Mexico	20S					MD (ft)	TVD (ft)																																						
Range	Section	GPS (NAD27) - (Long, Lat)																																													
37E	12	N 32° 35' 16.548" W - 103° 12' 21.744" (NAD27)																																													
Wellhead and Tree Data																																															
Item	Maker	Type	Size (in)	Part No.	Rating (psi)																																										
MDBRT (ft)	TVDBRT (ft)	Well Schematic	Description	Min ID (")	Max OD (")	Drift (")	Length (ft)	Comments																																							
21			Original KB to Tubing Head Flange				21																																								
1407.87			Hole Size: 12 1/4", 9 5/8" Csg, 36#, K-55	8.921	9.625	8.764	1407.87	(21-1407.87)	(Surface Casing info)																																						
			Cemented w/400 Sks Class C W/4% GEL, 2% CaCl2 (13.5 ppg, 1.74 CF/S), F/B 200 sack class C W/2% CaCl2 (14.8 ppg, 1.34 CF/S)						TOC-36	(Cement Info.)																																					
									Did not circulate cement																																						
2097				Hole Size: 8 3/4", 7" Csg, 23#, L-80, K-55	6.366	7.000	6.241	2,076	(21-2097)	(Production Csg info)																																					
				<u>Proposed Addition Drinkard Perfs</u>																																											
				<table><tr><th>Top (ft)</th><th>Base (ft)</th><th>Interval</th></tr><tr><td>6732</td><td>6744</td><td>13</td></tr><tr><td>6763</td><td>6767</td><td>5</td></tr><tr><td>6794</td><td>6799</td><td>6</td></tr><tr><td>6804</td><td>6808</td><td>5</td></tr><tr><td>6812</td><td>6815</td><td>4</td></tr><tr><td>6817</td><td>6820</td><td>4</td></tr><tr><td>6821</td><td>6824</td><td>4</td></tr><tr><td>6906</td><td>6911</td><td>6</td></tr><tr><td>6915</td><td>6919</td><td>5</td></tr><tr><td>6926</td><td>6932</td><td>7</td></tr><tr><td colspan="2">Total</td><td>59</td></tr></table>	Top (ft)	Base (ft)	Interval	6732	6744	13	6763	6767	5	6794	6799	6	6804	6808	5	6812	6815	4	6817	6820	4	6821	6824	4	6906	6911	6	6915	6919	5	6926	6932	7	Total		59							
Top (ft)	Base (ft)		Interval																																												
6732	6744		13																																												
6763	6767		5																																												
6794	6799		6																																												
6804	6808		5																																												
6812	6815		4																																												
6817	6820		4																																												
6821	6824		4																																												
6906	6911		6																																												
6915	6919		5																																												
6926	6932		7																																												
Total			59																																												
6,955																																															
6,971																																															
6,975																																															
			7006' TOC & TOL																																												
7,006			Proposed 20' cement dumped on CIBP				20																																								
7,376			Proposed setting depth of 5 1/2" CIBP				4																																								
7,396			Hole Size: 8 3/4", 7" Csg, 23#, L-80-5388'	6.366	7.000	6.241	5,388	(2097-7485)	(Production Csg info)																																						
7,400			1st stage w/500 sacks 50/50 POZ Class H w/2% gel 5% salt, 1/4# Flocele (14.2 ppg, 1.35 CF/S)					TOC-Surface, Circ 133 sks																																							
7,485			2nd stage w/1400 sks 35/65 POZ Class H w/6% gel 5% salt, 1/4# Flocele (12.8 ppg, 1.94 CF/S) followed by 100 sacks H neat (15.6 pg, 1.18 CF/S)																																												
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			Hole Size: 6 1/8", 5 1/2" Csg, 17#, J-55 SLX-Liner set w/350 sks Class H W/ .4% D800, .2% D95, .2%D46, .6%D156 (15.6 ppg, 1.19 CF/S). Plug Back Total Depth/ TD	4.892	5.500	4.767	2,921	(Production Csg info.)																																							
9,927								TOC-7,006' (Cement Info.)																																							
Prepared by:		Prasanna Kumar Chandran			Checked By:		13-Jul-13		Version: 1																																						

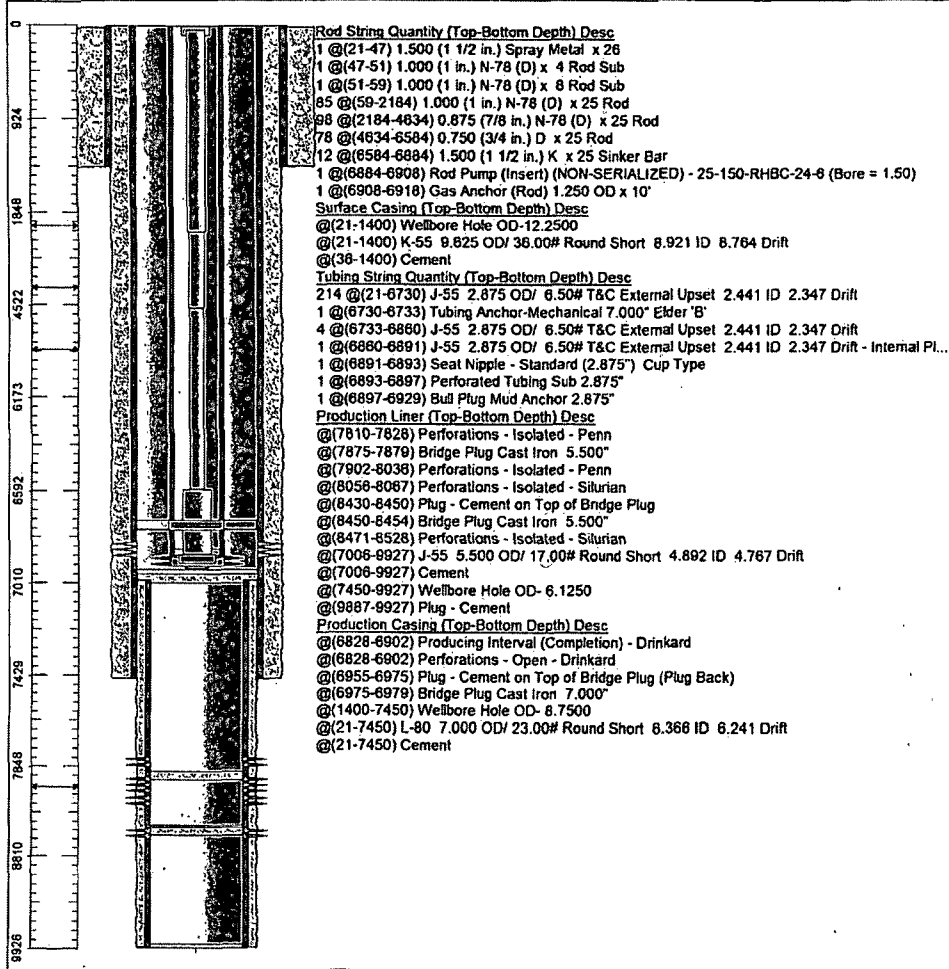
Well Bore Diagram:

Last Updated: 8/29/2012

Page 1 of 1

Chevron U.S.A. Inc. Wellbore Diagram : WEIRCHA20

Lease: OEU EUNICE		Well No.: WEIR, C. H. -A- 20		Field: FLD-SKAGGS	
Location: 2510FNL2225FWL		Sec.: N/A		Blk:	Survey: N/A
County: Lea	St.: New Mexico	Refno: BR7378		API: 3002534096	Cost Center: UCL211300
Section: 12		Township: 020 S			Range: 037 E
Current Status: ACTIVE				Dead Man Anchors Test Date: 03/26/2007	
Directions:					



Ground Elevation (MSL):: 3559.00	Spud Date: 09/17/1997	Compl. Date: 10/08/1998
Well Depth Datum:: CS10000N	Elevation (MSL):: 0.00	Correction Factor: 21.00
Last Updated by: bujq	Date: 08/29/2012	