APPENDIX E

NMOCD AND BLM REGULATORY DOCUMENTS, NOTIFICATIONS AND SUBMITTALS

APPENDIX E REGULATORY FILINGS

State of New Mexico Oil and Conservation Commission (NMOCC) State of New Mexico Oil and Conservation Division (NMOCD) United States Department of the Interior Bureau of Land Management (BLM)

No.	Document	Submitted	Approved	Notes
1	NMOCC Case No. 15528 Order No. R-14207	Submitted 12/10/2013 Hearing 8/25/2016	9/6/2016	Application to Inject Treated Acid Gas into the Devonian/Wristen/Fusselman/Montoya Formations through Proposed Zia AGI#2, Lea County, New Mexico
2	BLM 3160-5/3160-3	Submitted 8/9/2016	9/7/2016	Application For Permit to Drill and 3160-5 Form for revisions to Zia AGI #2 APD with Conditions of Approval.
3	BLM 3160-5/C-102 Amended	9/28/2016	10/19/2016	Amended Well Location and Acreage Dedication Plat
4	BLM 3160-5	10/13/2016	10/14/2016	Request changes to production casing, 2 nd int. casing depth, use of WellLock, use of 5M BOP/BOPE for completion, and production tubing. An updated drilling COA was included
5	BLM Form 3160-5	10/28/2016	11/4/2016	Sundry Notices and Reports on Wells— Intent to Spud Well
6	BLM Form 3160-5	11/2/2016	11/4/2016	Sundry Notices and Reports on Wells— Change to the 5M BOP system on 9.625- inch casing to include 3 rams instead of 2.
7	BLM 3160-5	11/2/2016	11/4/2016	Sundry Notices and Reports on Wells— Revision to the 10M BOP/BOPE system for the 8.75-inch hole
8	BLM Form 3160-5	11/10/2016	12/15/2016	Sundry Notices and Reports on Wells— Install Surface Casing and Name Change
9	BLM Form 3160-5	11/13/2016	12/1/2016	Sundry Notices and Reports on Wells— Install 1 st Intermediate Casing
10	NMOCD C-103	11/17/2016	11/22/2016	Sundry Notices and Reports on Wells— Install 1 st Intermediate Casing
11	BLM Form 3160-5	11/18/2016	12/15/2016	Sundry Notices and Reports on Wells— Install 2nd Intermediate Casing
12	NMOCD C-103	11/17/2016	11/22/2016	Sundry Notices and Reports on Wells— Install 2nd Intermediate Casing
13	BLM Form 3160-5	12/2/2016	12/15/2016	Sundry Notices and Reports on Wells— Well Completion Notice of Intent
14	NMOCD C-103	12/14/2016	12/16/2016	Sundry Notices and Reports on Wells— Well Completion Notice of Intent
15	BLM 3160-5	12/14/2016	12/15/2016	Sundry Notices and Reports on Wells— Install Production Casing
16	NMOCD C-103	12/14/2016	12/28/2016	Sundry Notices and Reports on Wells— Install Production Casing
17	BLM 3160-5	12/22/2016	1/17/2017	Sundry Notices and Reports on Wells— No Recoverable Hydrocarbons
18	BLM Form 3160-5	1/10/2017	1/26/2017	Sundry Notices and Reports on Wells— Step Rate Test

19	NMOCD	1/11/2017	1/17/2017	Sundry Notices and Reports on Wells-
	C-103		(record only)	Step Rate Test
20	NMOCD	1/25/2017	1/25/2017	Sundry Notices and Reports on Wells-
	C-103			Mechanical Integrity Test
21	BLM	1/26/2017	2/6/2017	Sundry Notices and Reports on Wells-
	Form 3160-5			Final Completion (Including Mechanical
				Integrity Test Results)
22	NMOCD	1/27/2017	2/1/2017	Sundry Notices and Reports on Wells-
	C-103		(record only)	Final Completion
23	BLM	1/30/2017	2/6/2017	Sundry Notices and Reports on Wells-
	Form 3160-5			Notice to Operators
24	BLM	1/30/2017	Pending	Well Completion or Recompletion Report
	Form 3160-4			and Log

CASE NO. 15528 ORDER NO. R-14207

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION COMMISSION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION FOR THE PURPOSE OF CONSIDERING:

APPLICATION OF DCP MIDSTREAM, LP FOR AUTHORIZATION TO INJECT ACID GAS INTO THE PROPOSED ZIA AGI #2D WELL, SECTION 19, TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM, LEA COUNTY, NEW MEXICO.

CASE NO. 15528 ORDER NO. R-14207

ORDER OF THE COMMISSION

THIS MATTER came before the Oil Conservation Commission ("Commission") on the application of DCP Midstream, LP ("DCP" or the "Applicant"). The Commission, having held a public hearing on August 25, 2016, and considered the testimony, the record, and the arguments of the parties, and being otherwise fully advised, now, on this 6th day of September, 2016,

FINDS THAT:

1. Notice has been given of the application and the hearing of this matter, and the Commission has jurisdiction of the parties and the subject matter herein.

2. On July 12, 2016, DCP filed an administrative application (OCD Form C-108 and attachments), seeking authority to inject treated acid gas ("TAG") consisting of carbon dioxide ("CO₂") and hydrogen sulfide ("H₂S") into the target injection zones located in the Devonian, Upper Silurian Wristen, and Fusselman Formations, at an approximate depth interval of 13.755 feet to 14,750 feet below the surface through the Zia AGI No. 2D well, at a maximum surface operating pressure of 5,028 pounds per square inch, a rate of 15.0 MMSCF per day TAG, and at a location in Section 19. Township 19 South. Range 32 East. NMPM, in Lea County, New Mexico. The proposed well will be drilled as a vertical well with the surface location at 1900 feet from the South line (FSL) and 950 feet from the West line (FWL) of Section 19.

3. On July 15. 2016, Geolex, Inc., submitted a revised Hydrogen Sulfide Contingency Plan amending the previously approved Zia II Gas Plant Rule 11 contingency plan to incorporate the proposed well. On July 22, 2016, the Division's Environmental Bureau approved and accepted those revisions. 4. The Form C-108 Application was complete and contains all the information necessary to grant approval.

5. An adjacent operator and the U.S. Bureau of Land Management, which owns the surface and minerals within the application area. support DCP's application.

6. The purpose of the proposed Class II injection well is to dispose of natural gas processing wastes consisting of CO_2 and H_2S from the Applicant's Zia II Gas Processing Plant ("Zia Gas Plant") by injecting TAG into the target injection zones. The TAG will consist of approximately 10 percent H_2S and 90 percent CO_2 , although the proportions will vary with inlet gas composition changes over time.

7. The Zia AGI No. 2D well will have a surface location approximately 1900 feet from the South line and 950 feet from the West line of Section 19, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico. The proposed AGI well will be located within the boundary of the Zia Gas Plant's premises.

8. On July 12, 2016, DCP requested that its C-108 Application be set for a hearing before the Commission on the August 25, 2016, docket.

9. On August 18, 2016, DCP filed with its Prehearing Statement and exhibits a corrected "Table A-1," marked as Exhibit 2, to replace the original Table A-1 filed with the Form C-108 Application.

10. DCP provided personal notice, via certified mail, return-receipt requested, of its application and the Commission hearing to all operators, surface owners, and lessees within a one-mile radius of the location for the proposed well.

11. Pursuant to 19.15.4.9.B(3) NMAC, the Division provided public notice by publishing notice of DCP's application and the Commission hearing in a newspaper of general circulation in Lea County.

12. No objections to the application were filed. The Division entered an appearance in this matter, but presented no witnesses and no testimony. The Division does not oppose the application. It presented one exhibit, which provided the Division's recommendations for conditions of approval.

13. In support of the application, DCP presented direct testimony from two witnesses: one fact witness, Carlton D. "Tony" Canfield, DCP's Project Engineering Manager, and a technical expert witness, Alberto Gutiérrez, RG, President of Geolex, Inc.

14. DCP's Tony Canfield testified that the proposed Zia Gas Plant has a capacity to process up to 200 MMSCF per day of sour gas and that the design and operation of the Zia Gas Plant is dependent on AGI wells to dispose of the resultant TAG. DCP has been injecting TAG through Zia AGI No. 1 well, approved in Order No. R-13809, since

August 2015 into the Lower Cherry Canyon and Upper Brushy Canyon formations at a depth of approximately 5,470 to 6,070 feet below the surface.

15. Mr. Canfield testified that after commencing injection through the Zia AGI No. 1 well, an operator approached DCP about injecting TAG into a deeper formation. DCP identified the Devonian, Upper Silurian Wristen, and Fusselman Formations as a suitable candidate for injection of TAG through the proposed AGI No. 2D well. DCP intends to maintain authority to inject TAG through the Zia AGI No. 1 well in Order No. R-13809.

16. Mr. Canfield testified that approval of the Zia AGI No. 2D well is necessary to help meet growing production demand for sour gas processing and waste disposal, will increase processing safety and reliability by reducing unplanned plant outages and production well shut-ins, and will result in a net reduction of air emissions from DCP consolidated facilities, as well as Zia Gas Plant and field flaring.

17. Mr. Canfield testified that having redundant AGI wells at the Zia Gas Plant will increase plant reliability and allow DCP to continue to process and inject TAG while one acid gas well is off-line.

18. DCP expert witness Alberto Gutiérrez, RG, testified that injection of TAG through the proposed AGI well will be at a maximum rate of 15.0 MMSCF per day, and at a maximum operating surface pressure of 5,028 pounds per square inch.

19. Mr. Gutierrez testified that with a safety factor of 100 percent, or an additional 15.0 MMSCF per day per well, the radius of influence for the Zia AGI No. 2D well after injecting for thirty years would be approximately 0.39 miles. The radius of influence for the well, based on the actual authorized injection volumes, is expected to be approximately 0.28 miles after thirty years of injection. However, based on areas of higher porosity and permeability in the area observed in the seismic data, the TAG plume may occupy an equivalent area elongated north to south within this zone of higher porosity and permeability radial pattern.

20. Mr. Gutierrez testified that the proposed injection zone provides a sufficient capacity and geologic seal to contain the injected TAG and prevent its migration into other zones. The injection zone is sufficiently isolated from any protectable groundwater sources and there is no evidence injection will impair existing or potential hydrocarbon production in the area. No faults or other geologic or manmade conduits will allow the treated injected acid gas to migrate out of the injection zone. One fault, which has been identified and mapped in the area, is restricted vertically to the injection zone and cannot, therefore, serve as a conduit to zones outside the confines of the injection zone.

21. Fresh water will be protected by surface casing, which will extend to approximately 800 feet below the surface. The salt zone, including the Salado Formation, will be isolated by the first intermediate casing to approximately 2,550 feet below the surface, and the Capitan Aquifer will be completely isolated by the second intermediate casing, set at approximately 4,500 feet below the surface. All casing strings will be

cemented to the surface, pressure tested, and verified using 360-degree cement bond logs. The casing and cement program will meet all U.S. Bureau of Land Management guidelines and requirements, in addition to all Oil Conservation Division requirements.

22. The AGI well's annular space will be filled with corrosion-inhibited and biocide-treated diesel fuel.

23. Annular and injection tubing pressures and temperatures will be continuously monitored and recorded. The well also will be equipped with downhole pressure and temperature monitoring equipment. As detailed in Section 3.4 of the C-108, DCP also proposes the following:

- a. Obtain initial bottomhole pressure and temperature values after drilling and prior to commencing injection.
- b. Perform a step-rate test and ten-day fall-off test prior to injection to provide baseline reservoir data.
- c. Monitor injection pressure, temperature, injection rate, and annular pressure.
- d. Use bottomhole reservoir and surface pressure/temperature data to develop a well-specific empirical relationship between observed surface and bottomhole data.
- e. Use TAG and/or wellbore models to predict bottomhole pressure/temperature conditions based on measured surface data, and tested against the empirical relationships established by measured surface and bottomhole data.
- f. In the event of any data gaps or bottomhole sensor failures, DCP will use TAG and/or wellbore models with empirical data to fill in missing bottomhole data.
- g. In the event of an extended bottomhole pressure/tcmperature sensor failure, DCP may perform periodic bottomhole pressure monitoring using slickline pressure tools only if data from such a temporary device is necessary to fill in data for relevant analyses, and only at times when the well is off-line.
- h. After approximately ten years of operation, DCP may perform another steprate test and fall-off test to compare with the baseline measured prior to injection.
- i. DCP may use the data obtained through the foregoing activities to conduct the periodic ten-year reservoir performance analysis addressed in Section 3.8 of the C-108, which would serve as the required ten-year comparison of

actual reservoir performance against DCP's predicted performance, provided in decretal Paragraph 10, below.

24. DCP presented evidence that injection of the proposed TAG stream will protect the environment and human health, and will not cause waste or impair correlative rights.

25. William V. Jones, P.E., and Phillip Goetze, P.G., both of whom are with the Oil Conservation Division's Engineering Bureau, submitted a letter to the Commission, dated August 18, 2016, and marked as Exhibit 1, stating that they had conducted a review of the C-108 application and that DCP had addressed questions raised in the Division's review. The Division recommended that an order approving DCP's application incorporate those standard conditions and the standard conditions provided in Order Nos. R-13443-B and C.

- 26. Those conditions are as follows:
 - a. Conduct a mechanical integrity test ("MIT") on the proposed AGI well every year.
 - b. .Conduct continuous monitoring of surface TAG injection pressure, temperature and rate, surface annular pressure and bottomhole temperatures and pressures inside the tubing and annulus.
 - c. Conduct a step-rate test on the completed well before commencing injection. The maximum injection pressure for the proposed well shall be 5,028 pounds per square inch, which may be appropriately adjusted after a step-rate test.
 - d. Include a biocide component in the inert annular fluid of the well.
 - e. Keep a maintenance log of its annular fluid (diesel) replacement activities in the annulus of the well.
 - f. Incorporate temperature controls to govern the temperatures of injected fluid within parameters set by DCP and provide an alarm system for those controls should the parameters be exceeded.
 - g. Equip the well with a pressure-limiting device as well as a one-way safety valve on the tubing approximately 250 feet below the surface.
 - h. Provide summary data on injection parameters monitored in item b. above, as requested by the Division in quarterly reports. After one year, the Division may approve submission of such reports annually upon request.

- i. Conduct and implement all required air monitoring and safety measures pursuant to the updated H_2S Contingency Plan approved by the Division on July 22, 2016.
- j. Thirty days prior to commencing injection, the operator shall coordinate with the Division to establish immediate notification parameters for annulus pressure and tubing and casing differential pressure at a set injection temperature.
- k. Ninety days after commencing injection, the operator shall review the pre-injection immediate notification parameters with the Division. If the Division determines that the parameters require modification, new immediate notification parameters shall be developed and implemented in coordination with the Division.
- 1. The immediate notification parameters shall be reviewed jointly by the operator and the Division periodically, but not less frequently than once a year.
- m. All well drilling logs and the estimated static bottomhole pressure measured at completion of drilling the well shall be submitted to the Division's District I Office.
- n. Provide a report at the completion of every tenth year of injection summarizing the AGI No. 2D well's performance and potential calibration of models due to information collected during the prior tenyear period.

27. In the letter from Mr. Jones and Mr. Goetze, the Division recommended two additional conditions:

- o. The top of cement for the proposed seven-inch production casing should be circulated to the surface; and
- p. The final reservoir evaluation should confirm that the open-hole portion of the AGI well does not intersect the fault plane of the identified fault in the Devonian section.

CONCLUSIONS

1. The Commission has jurisdiction over the parties and the subject matter of this case.

2. Proper public notice has been given.

3. Proper individual notice has been given to all operators, surface owners, and lessees within a one-mile radius of the proposed injection well.

4. DCP's request for a maximum allowable operating pressure for injection of 5,028 pounds per square inch (psi) should be approved.

5. DCP's injection of CO_2 and H_2S can be conducted in a safe manner without causing waste, impairing correlative rights, negatively impacting oil and gas producing zones, or endangering fresh water, public health, or the environment.

6. DCP's proposed injection of CO_2 and H_2S is an environmentally superior means of disposing of CO_2 and H_2S because it will result in a net reduction in overall air emissions from the Zia Gas Plant and DCP facilities.

IT IS THEREFORE ORDERED THAT:

1. DCP's application is approved as provided in the Form C-108 as amended and modified by the conditions addressed below. Accordingly, DCP is hereby authorized to drill and operate the Zia AGI No. 2D well to be located in Section 19, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico, to dispose of TAG containing CO_2 and H_2S from DCP's Zia Gas Plant through injection into the Devonian and Silurian Formations, at an approximate depth interval of 13,755 feet to 14,750 feet below the surface at a maximum injection pressure of 5,028 pounds per square inch and a maximum daily injection rate of 15 MMSCF per day.

2. The Zia AGI No. 2D well shall be constructed substantially in accordance with the description in the Form C-108 filed by the Applicant in this case, as amended, and as modified by the conditions agreed to by DCP and the Oil Conservation Division set out in Findings Paragraphs 26 and 27, above.

3. The maximum allowable operating pressure for the Zia AGI No. 2D well shall be 5,028 psi. DCP shall conduct a step-rate test on the completed well before commencing injection. Based on the step-rate test, the Division may allow an increase in the maximum allowable operating pressure.

4. DCP shall be required to conduct a MIT in accordance with Division rules on the Zia AGI No. 2D well once every year.

5. The casing-tubing annulus of the Zia AGI No. 2D well shall be loaded with diesel fluid treated with corrosion inhibitors and biocides and equipped with a pressure gauge or approved leak-detection device to detect any leakage in the casing, tubing, or packer.

6. Thirty days prior to commencing injection, the operator shall coordinate with the Division to establish immediate notification parameters for annulus pressure and tubing and casing differential pressure at a set injection temperature.

7. Ninety days after commencing injection, the operator must review the preinjection immediate notification parameters with the Division. If the Division determines that the parameters require modification, new immediate notification parameters shall be developed and implemented in coordination with the Division.

8. The immediate notification parameters shall be reviewed jointly by the operator and the Division periodically, but not less than once a year.

9. The operator shall record injection rates and pressures on a continuous basis and report these readings in a summary form on a quarterly basis to the Engineering Bureau in the Division's Santa Fe Office and to the Division's District I Office. Each such report shall include the well name, location, API Number and the number of this order. After one year DCP may apply to the Division to submit such data annually.

10. The operator shall every ten years, once injection begins, provide the Division with a report that compares the reservoir pressures, volumes injected and projected TAG plume extent to those estimated in the C-108 application, along with a summary of all the injection results to date. DCP may use data collected and analyses conducted pursuant to Paragraph 23, above, to prepare this analysis. The report shall include an updated model of current and projected plume migration and shall use the modeling technology in standard use at the time of the report and any available information about plume migration.

11. The Division Director shall have discretion to determine whether any modifications to this order that may be requested by DCP, or imposed by the U. S. Bureau of Land Management, may be administratively approved by the Division or if a hearing before the Commission is required.

12. The injection authority herein granted shall terminate three years after the effective date of this order if the operator has not commenced injection operations pursuant hereto. The Division Director, upon written request of the operator submitted prior to the expiration of this order, may extend this time for good cause shown.

13. Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state, or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Case No. 15528 Order No. R-14207 Page 9

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION_COMMISSION

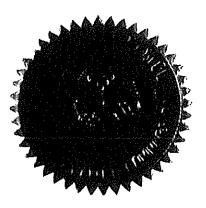
ROBERT BALCH, MEMBER

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PATRICK PADILLA, MEMBER

tan

DAVID R. CATANACH, CHAIR



SEAL

APPLICATION FOR PERMIT TO DRILL AND CONDITIONS OF APPROVAL

 Date Submitted:
 8/9/16

 Date Approved:
 9/7/16

Attachments:

Conditions of Approval Geolex's Application for Permit to Drill Report

Form 3160-5 (August 2007)	UNITED STA DEPARTMENT OF TH BUREAU OF LAND M.	FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010 5. Lease Serial No. NM 0149956			
Do not use		PORTS ON WELLS is to drill or to re-enter a (APD) for such proposa		6. If Indian, Allottee or T N/A	ribe Name
	SUBMIT IN TRIPLICATE - O	ther instructions on page 2.		7. If Unit of CA/Agreem	ent, Name and/or No.
1. Type of Well] Gas Well 📝 Other	Acid Gas Injection		8. Well Name and No. Zia AGI #2D	
2. Name of Operator DCP Midstream, LP				9. API Well No. 3002542207	
3a. Address 370 17th St., Suite 2500 Denver, CO 80202		3b. Phone No. (include area of (303) 595-3331	ode)	10. Field and Pool or Ex Devonian Expl.	sploratory Area
 Location of Well (Footage, 1900' FSL, 950' FWL, Sec. 19, T19S, 	Sec., T.,R.,M., or Survey Descrip R32E	ntion)		11. Country or Parish, S Lea	itate
1:	. CHECK THE APPROPRIATI	E BOX(ES) TO INDICATE NATU	RE OF NOT	TICE, REPORT OR OTHE	R DATA
TYPE OF SUBMISSIC	N	1	YPE OF A	CTION	
the proposal is to deepen Attach the Bond under wh following completion of t testing has been complete	pleted Operation: Clearly state a directionally or recomplete horiz hich the work will be performed he involved operations. If the op	Il pertinent details, including estim ontally, give subsurface locations a or provide the Bond No. on file wit	R R T T W w ated starting nd measure h BLM/BIA etion or reco	d and true vertical depths of A. Required subsequent repompletion in a new interval	borts must be filed within 30 days , a Form 3160-4 must be filed once
DCP Midstream respectly r	equests the changes in the ex	isting approved APD for this we	II, describe	ed in detail in the attache	ed Sundry application.
				SEE ATTACH CONDITIONS OF	ED FOR APPROVAL
 I hereby certify that the fore Name (Printed/Typed) 	going is true and correct.				

Alberto A. Gutierrez, R.G. Title	Consultant to DCP Midstream	
Signature Date		APPROVED
THIS SPACE FOR FEDERAL	L OR STATE OFFICE US	SEP - 7 2016
Approved by Teungku Muchlis Krueng	Title PETROLEUM E	NGINEER BUNDAU OF LAND MANAGEMENT
THIS SPACE FOR FEDER	Office	CARLSBAD FIELD OFFICE

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Form 3160 - 3 (August 2007)					OMB No	APPROVED 1004-0137 ily 31, 2010	1
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN.	NTER				5. Lease Serial No. NM 0149956	.,	•
			ER	-	6. If Indian, Allotec N/A	or Tribe I	Name
la, Type of work: DRILL REENTE	ER				7 If Unit or CA Agre N/A	ement, Na	me and No.
Ib. Type of Well: Oil Well Gas Well 🗸 Other		Single Zone	Multip	le Zone	8. Lease Name and V Zia AGI #2D	Vell No.	
2 Name of Operator DCP Midstream, LP					9. API Well No. 3002542207		
3a. Address 370 17th St., Suite 2500 Denver CO 80202		ne No. <i>(include ari</i> 595-3331	a code)		10. Field and Pool, or I Devonian Expl.	Explorator	у
4. Location of Well (Report location clearly and in accordance with an	y State re	quirements.*)			11. Sec., T. R. M. or B	lk.and Su	rvey or Area
At surface 1900' FSL, 950' FWL, Sec. 19, T19S, R32E		•			Sec. 19, T119S, R3		•
At proposed prod. zone Same 14. Distance in miles and direction from nearest town or post office*					12. County or Parish		13. State
15 Miles South of Maljamar, NM Post Office					Lea		NM
15. Distance from proposed* location to nearest property or lease line, fL (Also to nearest drig. unit line, if any)	16. No N/A: (o, of acres in lease Class II Dispose	al	17, Spacin N/A	g Unit dedicated to this v	vell	
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ~200' South of Zia AGI #1 (3002542208) 	19. Pr ~14,5	oposed Depth 100'			BIA Bond No. on file 105 (BLM, Statewide)	ant
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3550' GL		proximate date wo	ork will star	nt*	23. Estimated duratio 75 Days	n	
	24.	Attachments					
The following, completed in accordance with the requirements of Onshor	re Oil an	d Gas Order No. 1,	must be at	tached to thi	s form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	Lands, t	ltem 2	to cover the cov	•	ns unless covered by an	existing t	oond on file (see
SUPO must be filed with the appropriate Forest Service Office).			other site		ormation and/or plans as	may be r	equired by the
25. Signature		Name (Printed Ty) Alberto A. Gutie				Date	
Title							
Consultant to DCP Midstream, LC							_
Approved by (Signature)	1	Name (Printed Ty	oed)			Date	
Title	(Office				I	
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal o	r equitable title to	those righ	ts in the sub	ject lease which would e	ntitle the s	applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a ci States any false, fictitious or fraudulent statements or representations as	rime for to any m	any person knowi atter within its juri	ngly and v sdiction.	villfully to m	ake to any department of	or agency	of the United

(Continued on page 2)

*(Instructions on page 2)

DISTRICT I Form C-102 1525 N. French Dr., Hobbs, NM 88240 Phone (878) 593-6161 Fazz (576) 803-6780 State of New Mexico Energy, Minerals and Natural Resources Department Revised August 1, 2011 DISTRICT II Submit one copy to appropriate 811 S. First St., Artesia, NM 88210 Phone (576) 748-1303 Page (575) 748-6720 District Office OIL CONSERVATION DIVISION DISTRICT III 1220 South St. Francis Dr. 1000 Rio Braxos Ed., Axteo, NM 87410 Phone (606) \$34-6178 Fuzz (606) \$34-6170 Santa Fe, New Mexico 87505 DISTRICT IV 1220 B. St. Francis Dr., Santa Fe, NM 87500 Phone (506) 470-3400 Paz: (505) 470-3452 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name SWI elonian 3002542207 Property Code **Property** Name Well Number ZIA AGI 2 Operator Name OGRID No. Elevation 3547 DCP MIDSTREAM 36785 Surface Location Feet from the North/South line East/West line UL or lot No. Bection Township Range Lot Idn Feet from the County 19 19 S 32 E 1900 SOUTH 950 WEST LEA Bottom Hole Location If Different From Surface UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION N: 601787.0 N: 601778.8 **OPERATOR CERTIFICATION** E: 701104.3 E: 706416.7 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the location or has a right to drill this well at this location purnuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretafore entered by the division. NAD 83 NAD 83 y 9/16 a Signature Date or Hon. Printed Name Cokanfield streamen Email Address N: 599138.3 E: 701122.9 NAD 83 SURVEYOR CERTIFICATION N: 599147.8 I hereby certify that the well location shown E: 706435.3 on this plat was plotted from field notes of SURFACE LOCATION NAD 83 actual surveys made by me or under my Lat - N 32'38'38.29" Long - W 103'48'40.02" supervison, and that the same is true and NMSPCE- N 598400.5 E 702077.9 correct to the best of any belief. Laust-2.000 S.L 950 (NAD-83) TOTTA WEXICO Date S fire Signa Prof do al urveyor 75 006 Certific San 7977 BASIN SURV 0' 2000' N: 596498.4 N: 596504,5 N: 596507.2 1000* 1500' 0' <u>500'</u> E: 701141.1 E: 703811.3 E: 706453.4 SCALE: 1" = 1000" NAD 83 NAD 83 NAD B3 WO Num.: 30775

Conditions of Approval

OPERATOR'S NAME:	DCP Midstream LP
LEASE NO.:	NM0149956
WELL NAME & NO.:	2-Zia AGI
SURFACE HOLE FOOTAGE:	1900'/S & 950'/W
BOTTOM HOLE FOOTAGE	1655'/S & 1655'/W
LOCATION:	Sec. 19, T. 19 S., R. 32 E.
COUNTY:	Lea County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - 🛛 🛛 Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Delaware formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly
 plugged, the drilling rig shall not be removed from over the hole without prior approval. If
 the drilling rig is removed without approval an Incident of Non-Compliance will be
 written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

<u>Risks:</u>

Possibility of Water Flows in the Capitan Reef, in the Salado and in the Artesia Group. Possibility of Lost Circulation in the Rustler, Capitan Reef, Red Beds, Delaware and in the Artesia Group.

- 1. The 20 inch surface casing shall be set at approximately 800 feet (in a competent bed <u>below</u> <u>the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the 13 3/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the 9 5/8 inch production casing is: Operator has proposed DV tool at depth of 2650'. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 4. The minimum required fill of cement behind the 7-5/8 and 7 inch intermediate casing is:

Operator has proposed DV tool at depth of 6350'. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- c. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- d. Second stage above DV tool:
- Cement to surface. Operator to provide method of verification.
- 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.

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- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **surface casing shoe** shall be **2000** (**2M**) psi.
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8 inch intermediate casing shoe shall be 10,000 (10M) psi. 10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. WELL COMPLETION

A NOI sundry with the procedure to complete this well in compliance with BLM and NMOCD requirements shall be submitted and approved prior to commencing completion work.

The procedure will be reviewed to verify that the completion will allow the operator to restrict the injection fluid to the approved formation. NOTE: The sundry shall include data from the conventional core analysis and logs with detailed analysis of the reservoir seal depth related to the perforation interval and the packer setting depth. It may also need to include previously submitted information.

DO NOT install injection tubing until approval is received

NOTE: (include with NOI sundry) prior to beginning Acid Gas Injection at the well, the Operator shall provide all Operators of existing wells within a 1 mile radius with a notice of beginning injection operations and include a map of the possible worst case scenario H2S exposure area(s). BLM is to be copied on this notice mailing. (H2S Public Protection Plan)

An MIT test must be conducted annually and submitted to the BLM via subsequent sundry.

F. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

G. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

TMAK09072016

AMENDED WELL LOCATION AND ACREAGE DEDICATION PLAT

 Date Submitted:
 9/28/16

 Date Approved:
 10/19/16

Attachments: Form C-102 Well Location and Acreage Dedication Plat

	UNITED STATE EPARTMENT OF THE I UREAU OF LAND MANA	NTERIOR	Opera	ator	OMB N	APPROVED D. 1004-0135 July 31, 2010
	NOTICES AND REPO				NMLC065863	
abandoned we	ill. Use form 3160-3 (AP	D) for such pro	posals.		6. If Indian, Allottee of	r Tribe Name
SUBMIT IN TR	IPLICATE - Other instru	tions on rever	se side.		7. If Unit or CA/Agre	ement, Name and/or No.
I. Type of Well 🔲 Gas Well 🔲 Ot	her				8. Well Name and No, ZIA AGI 2	
. Name of Operator DCP MIDSTREAM LP	Contact: E-Mail: aag@geol	ALBERTO A G	UTIERREZ		9. API Well No. 30-025-42207-(0 - X1
3a. Address 370 17TH STREET SUITE 25 DENVER, CO 80208 5406	500	3b. Phone No. (i Ph: 505-842-)	10. Field and Pool, or AGI	Exploratory
Location of Well (Footage, Sec , 2	T., R., M., or Survey Description	ı)	_ i		11. County or Parish.	and State
Sec 19 T19S R32E Lot 3 190 32.644036 N Lat, 103.81114					LEA COUNTY,	NM
12. CHECK APP	ROPRIATE BOX(ES) T	O INDICATE N	ATURE OF	NOTICE, RI	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE O	F ACTION		
☑ Notice of Intent	🗖 Acidize	Deepe	n	Product	ion (Start/Resume)	UWater Shut-Off
—	Alter Casing	🗖 Fractu	re Treat	🗖 Reclam	ation	Well Integrity
Subsequent Report	Casing Repair	-	Construction	Recomp		□ Other
Final Abandonment Notice	Change Plans	+	nd Abandon	Tempor Water I	arily Abandon	
determined that the site is ready for DCP Midstream LP requests 1900' FSL, 950' FWL, Sec. 1 1893' FSL, 950' FWL, Sec. 1 A signed survey plat (C-102)	a revision of the location 9, T19S, R32E to: 9, T19S, R32E		from the origin	nal location o	f:	
OK Per Bar Ba	is true and correct.	-				
,,	Electronic Submission For DCI mmitted to AFMSS for pro-	352874 verified 1 MIDSTREAM LF	by the BLM We , sent to the f	all Information Hobbs	n System	
	maniford to ALLER for me	essing by PRISC			(16PP1219SE) DCP MIDSTREM, I	D
	O A GUTIERREZ		Title CONS	ULIANT TO		
Name (Printed/Typed) ALBERT			Date 09/28/2			
Name (Printed/Typed) ALBERT	O A GUTIERREZ	1	Date 09/28/2	2016		
Name (Printed/Typed) ALBERT	O A GUTIERREZ		Date 09/28/	2016	SE	
Name (Printed/Typed) ALBERT Signature (Electronic	O A GUTIERREZ Submission) THIS SPACE F	OR FEDERAL	Date 09/28/2 OR STATE Title	2016 OFFICE U	SE GER	Date 3/19

** BLM REVISED **

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) 476-3460 Fax: (505) 476-3462

Submit one copy to appropriate District Office

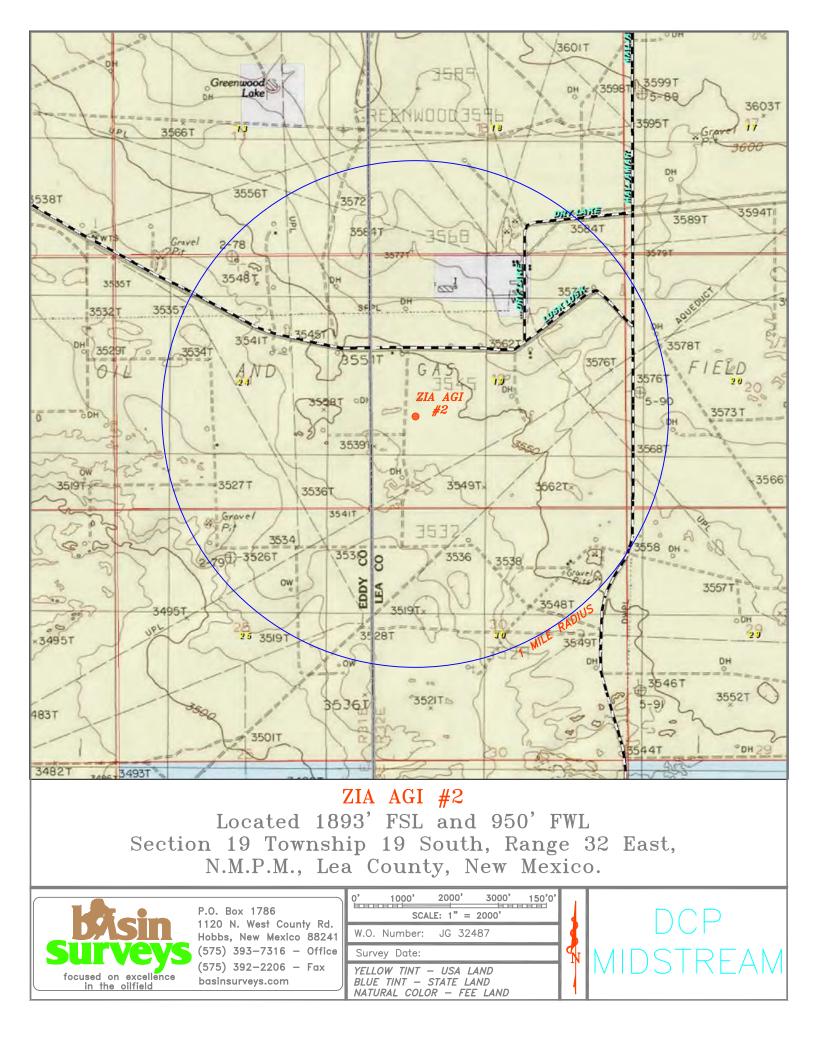
OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

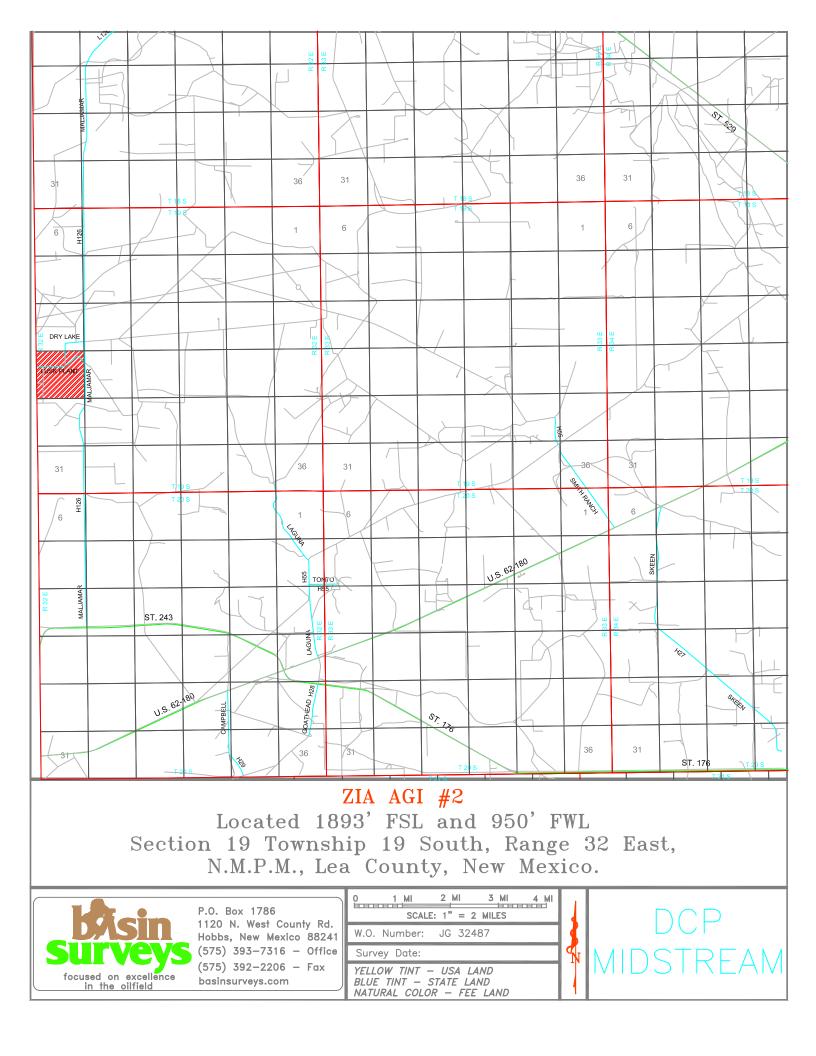
Santa Fe, New Mexico 87505

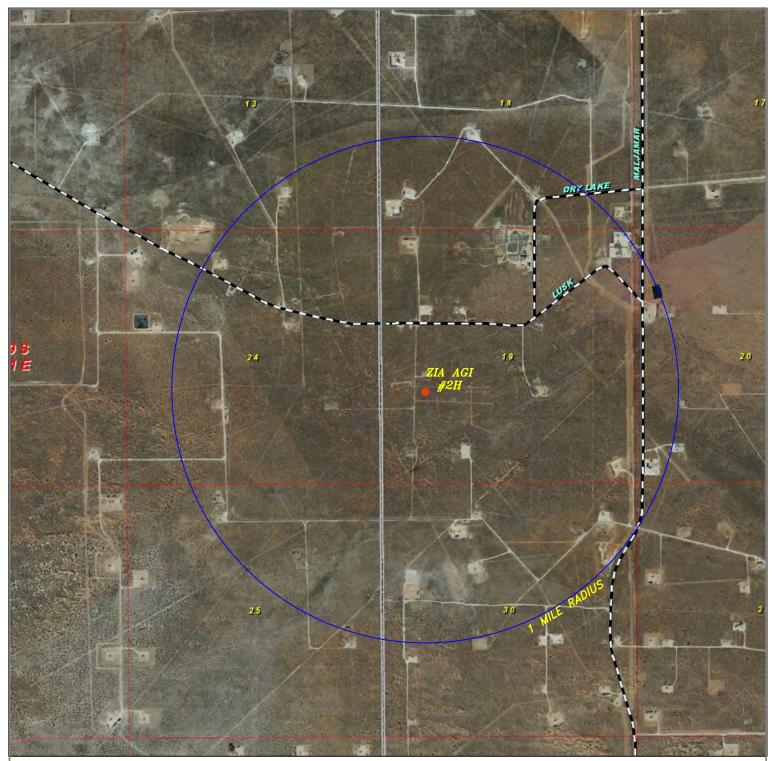
WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

API N	Number			Pool C	ode					Pool Name		
Property C	ode						erty Nam	e			Well Nu 2	ımber
OGRID No			Operator Name Elevation									
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N.: 596498.4 E.: 701141.1 (NAD83)				N.: 596 E.: 703 (NAD	811.2			N.: 5965 E.: 7064 (NAD8	53.4		1000' 1500' HE: 1" = 2000' Num.: 32487	2000'N







ZIA AGI #2

Located 1893' FSL and 950' FWL Section 19 Township 19 South, Range 32 East, N.M.P.M., Lea County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com 0<u>1000' 2000' 3000' 150'0'</u> SCALE: 1" = 2000' W.O. Number: JG 32487 Survey Date: YELLOW TINT – USA LAND BLUE TINT – STATE LAND NATURAL COLOR – FEE LAND



CHANGES TO THE FINAL WELL SCHEMATIC AND COMPLETION PROCEDURES

Date Submitted:	10/13/16
Date Approved:	10/14/16
Attachments:	New Well Schematic
	New Cement Program
	New Tubing and Equipment Design
	Updated Conditions of Approval

OCT 2 + GODMIN IN THE DEATE + Other instructions on reverse state. 1. Type of Well Other 2. Name of Operator Contact: DCP MIDSTREAM LP / 2. Name of Operator 30 3a. Address 3b. Phone No. (include area code) 370 17TH STREET SUITE 2500 Ph: 505-842-8000 DENVER, CO 80208 5406 10. Fi 4. Location of Well (Footage, Sec., T., R. M., or Survey Description) 11. C S2 644036 N Lat, 103.811145 W Lon 11. C 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT TYPE OF SUBMISSION TYPE OF ACTION 12. CHECK APPROPRIATE BOX(ES) TO INDICATE Treat Reclamation Subsequent Report Casing Repair Production (State) Subsequent Report Charge Plans Plug and Abandon Temporatily A 13. Describe Proposed or Completed Operations (Ideary state all pertinent details, including estimated at arting date of any proposed fif the proposal is to despend incicionally or recomplete hoerizontally, give subsurface locations and messare and true vertical data that he Bond under which the work will be performed or provide the Bond No. on file with BUMIA. Requestion and the vertical data that he Bond under which the work will be performed or provide the Bond No. on file with BUMIA. Requestion and the vertical data thathe Bond under which the work will be performed or provide the Bon	Indian, Allottee or Unit or CA/Agreen ell Name and No. A AGI 2 PI Well No. D-025-42207-00 Field and Pool, or E GI County or Parish, ar EA COUNTY, N T, OR OTHER tart/Resume) Abandon al I work and approxi- lepths of all pertine nt reports shall be fierval, a Form 3160	-X1 - xploratory ad State M DATA Water Shut-O Well Integrity S Other mate duration theree	
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2. Name of Operator Contact: ALBERTO A GUTIERREZ 9. AP 30. Address 30. B. Phone No. (include area code) 9. AP 370 17TH STREET SUITE 2500 Bb. Phone No. (include area code) AC 4. Location of Well (Footage, Sec., T. R., M., or Survey Description) 11. C Sec 19 T19S R32E Lot 3 1900FSL 950FWL ✓ 22. LEE 32.644036 N Lat, 103.811145 W Lon 11. C LEE 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT TYPE OF SUBMISSION TYPE OF ACTION 13. Notice of Intent Acidize Deepen Production (State and the construction) 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed if the proposal is to deepen directionally or recomplete horizontally, give substrike locations and measured and true vertical datatch the Bond under which the work will be performed or provide the Bond No. on file with BLM/BLA. Required subsequent following completion of the involved operations. If the operation results in a multiple completion or acompletion are winke testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have i determined that the site is ready for final inspection.) DCP Midstream LP requests minor changes to the final well schematic. Attached is the new well schematic with an updated casing design consisting of casing that is of equal or greater grade. The top 300 of producti	PI Well No. D-025-42207-00 Field and Pool, or E GI County or Parish, ar EA COUNTY, N T, OR OTHER tart/Resume) Abandon al d work and approximilepths of all pertine nt reports shall be fi erval, a Form 3160	xploratory nd State M DATA UWater Shut-O Well Integrity Other mate duration theree	
DCP MIDSTREAM LP F-Mail: aag@geolex.com 30 3a. Address 3b. Phone No. (include area code) 10. Fi 370 17TH STREET SUITE 2500 Ph: 505-842-8000 AC DENVER, CO 80208 5406 III. C AC 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) III. C Sec 19 T19S R32E Lot 3 1900FSL 950FWL ✓ S2.644036 N Lat, 103.811145 W Lon LEE 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT TYPE OF SUBMISSION TYPE OF ACTION III. C Casing Fracture Treat Reclamation Subsequent Report Casing Repair New Construction Recomplete III. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed if the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true writed attesting abeen completed. Final Abandonment Notice shadomment Notice shadomment Notices the Bond No. on file with BLMBLA. Required subsequent following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new into testing has been completed. Final Abandonnent Notices shall be filed only after all requirements, including reclamation, have I determined that the site is ready for final inspection.) DCP Midstream LP requests minor changes to the final well schematic. Attached is the new well schematic with	0-025-42207-00 Field and Pool, or E GI County or Parish, ar EA COUNTY, N T, OR OTHER tart/Resume) Abandon al d work and approxin lepths of all pertine nt reports shall be fierval, a Form 3160	xploratory nd State M DATA UWater Shut-O Well Integrity Other mate duration theree	
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the intervals of the well potentially impacted from acid gases. Depths and volumes are detailed in	APPROVA		
	ONS OF A	APPROVA	
14. I hereby certify that the foregoing is true and correct. Electronic Submission #354727 verified by the BLM Well Information Syste For DCP MIDSTREAM LP, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 10/14/2016 (17PPC Name (Printed/Typed) ALBERTO A GUTIERREZ Title CONSULTANT TO DCP M	0043SE)	5	
Signature (Electronic Submission) Date 10/13/2016			
THIS SPACE FOR FEDERAL OR STATE OFFICE USED			
	KUYED		
Approved By Teungku Muchlis Krueng Title PETROLEUM EN	GINEER	Date	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to an States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction BUREAU OF LA	1 4 2016		

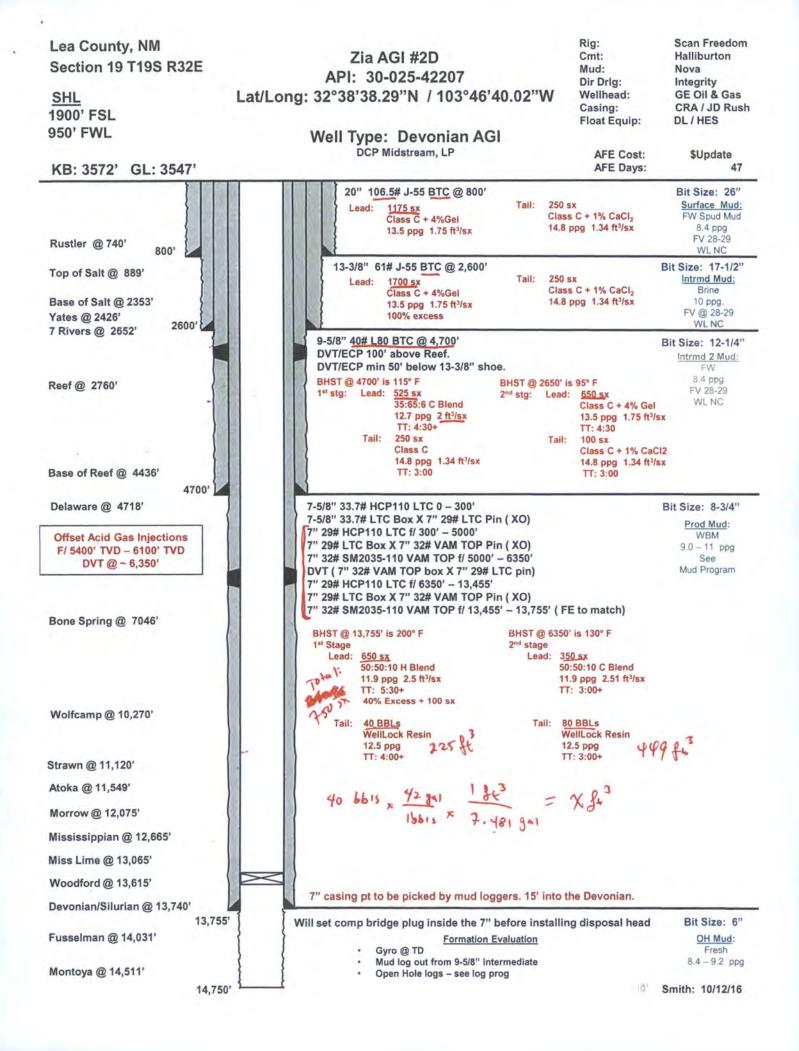
Additional data for EC transaction #354727 that would not fit on the form

32. Additional remarks, continued

the attached cementing program. This cement is corrosion resistant cement of better quality than the approved ThermaLock or equivalent.

DCP Midstream LP requests permission to employ a 5M BOP/BOPE for completion of the final open hole segment of the well from depths of approximately 13,755' to 14,750'. The approved 10M system will still be employed from drilling, casing, cementing and testing of the 7" production casing (to approximately 13,755'). This change simplifies operations, and this disposal zone is generally under-pressured in this area.

DCP Midstream LP requests a change in production tubing to using approximately 13,400' of 3-1/2" 9.3 ppf L80 VAM top steel tubing, and approximately 300' (13,400' to 13,700') of 3-1/2" 9.3 ppf 28CR110 corrosion-resistant steel for overall corrosion resistant design. See attached for the well completion diagram including tubing and packer assembly.



CEMENT PROGRAM

The cement program is summarized in Table 1 below. All cement for each casing string will be circulated to the surface, using the calculated excesses shown in Table 2 below. After cement curing, each casing string will be pressure tested before drilling out the diverters and shoes, and a formation pressure test will be conducted and approved prior to deeper drilling. All cement jobs for all casing strings will be verified using 360° cement bond logging and analyses.

		Ta	ble 1: C	ement P	rogram a	nd Design	Specifications
Casing	Interval (ft.)	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
20"	0 - 800	1175	13.5	1.75	9	12	Lead: Class C + 4% Gel
		250	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl2
13-3/8"	0-2,600	1700	13.5	1.75	9	12	Lead: Class C + 4% Gel
		250	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl2
9-5/8"	2,650 -	450	12.7	2	10.6	16	Lead: Econocem HLC 35:65:6 C Blend
1 st stg	4,700	250	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl2
9-5/8"	0-2,650	650	13.5	1.75	9	12	Lead: Class C + 4% Gel
2 nd stg		100	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl2
7"	6,350 -	650	11.9	2.5	19.1	24	Lead: 50:50:10 H Blend
1 st stg	13,755	40 (bbls)	12.5	40 (bbls	N/A	24	Tail: WellLock Resin
7"	0-6,350	350	11.9	2.51	19.1	24	Lead: 50:50:10 C Blend
2 nd stg		80 (bbls)	12.5	80 (bbls)	N/A	24	Tail: WellLock Resin

N/A = Not Applicable

The DVT/ECP for the 9-5/8" 2nd intermediate casing will be set @ 2650'. This setting depth for the DVT/ECP will ensure we get a proper seal above the initial losses of the reef to ensure a good cement job for the 9-5/8" casing. To get a proper cement job if the BLM is going to enforce us to be 50' below the 13-5/8" casing shoe, then we need the 13-3/8" casing shoe to be set no deeper than 2600'. Setting the 13-3/8" casing at 2600' will case the salt and the top of the Yates.

The DVT for the 7" casing will be set @ 6,350'. Volumes subject to change from hole observations and/or fluid calipers. Lab reports with the 500 psi comp strength time for the cement will be onsite for review. After drilling the OH disposal interval, and before installing disposal head, operator will install a comp bridge plug inside the 7" casing.

Table 2: Cement Excess for Casing Strings						
Casing String	TOC	% Excess				
20"	0'	50%				
13-3/8"	0'	100%				
9-5/8"	0'	50%				
7"	0'	40% + 100 sacks				

HALLIBURTON

DCP Midstream

2) Double Pin Sub (DCP) 3.500 22. 3) Tubing Subs (AR equired) (DCP) 3.500 22. 4) 31/2" 9.3# BTS-8 L-80 Tubing 3.500 22. 5) 11/2" 9.3# BTS-8 L-80 Tubing 3.500 22. 6) Halliburton Tubing Retrievable Safety Valve-NE 3.1/2" 9.2# 5.300 22. 6) Halliburton Tubing Retrievable Safety Valve-NE 3.1/2" 9.2# 5.300 22. 6) Halliburton Tubing Retrievable Safety Valve-NE 3.1/2" 9.2# 5.300 22. 6) Halliburton Subs (AR SA 1/2" 9.3# BTS-8 Pin L-80 Sub (DCP) 3.907 2.1 7) 3 1/2" 9.3# BTS-8 L-80 VAMTOP Pin L-80 Sub (DCP) 3.907 2.1 1.33 11) Halliburton 2.552 R Nipble 31/2" 9.2# VAMTOP Box X Pin 3.937 2.1 1.33 11) Halliburton Seal Assembly 13.12" 9.2# VAMTOP Box X 9 1/2" 10.2# 4.470 2. 4.86 VALVERANDER Seal Anter Mark Carl	Installation		ZIA AGI #2 Company Rep. Lea County New Mexico Sales Rep. 9/13/16 Office	Lynn Talley 432-682-4305		
Tubing Hanger 258 33.78 X 7" 298 & 328 Tapered Casing String 3500 22 1 1 joint 3 1/2" 9.3# BTS-8 L-80 Tubing Joint Inverted 3500 22 2) Double Pin Sub (CCP) 3500 22 3) Tubing Subs (As Required) (CCP) 3500 22 4) 3 1/2" 9.3# BTS-8 Les To Tubing 3500 22 6) Hallburton Tubing Retrievable Safety Vale-KE 3 1/2" 9.2# 5300 22 6) Hallburton Tubing Retrievable Safety Vale-KE 3 1/2" 9.2# 5300 22 7) 3 1/2" 9.3# BTS-8 Box X 3 1/2" 9.2# AB TC-II Box X 91 Harmath Nickel Alloy 925 10K 3300 23 8) 3 1/2" 9.3# BTS-8 Leo VAMTOP Sitel tubing to 13,400' 3500 22 9) 3 1/2" 9.3# BTS-8 Box X 3 1/2" 9.2# VAMTOP Pin L-80 Sub (DCP) 3,907 23 1.33 11) Hallburton 2.502' R Nipple 3 1/2" 9.2# VAMTOP Finx Labox 100' 00' 3.500 24 1.33 10' Harder Comparison resistant steel (13,400' -13,700') 3.500 25 1.33 11' Hallburton 2.502' R Nipple 3 1/2" 9.2# VAMTOP Finx Labox 200' DS 3,500 1.33 11' Hallburton 2.502' R Nipple 3 1/2" 9.2# VAMTOP Finx X 11/2" 10.2# 4,470 22 1.486 Torintract and control ton treton and the contreto	Installation Length	Depth	Description	OD	ID	
6.34 13,723.60 18) 6' x 3 1/2" 9.3# VAMTOP Box x Pin Pup Joint Incolog 925 3.540 2.4 1.33 13,729.94 19) Halliburton 2.562" R Nipple 3 1/2" 9.2# VAMTOP Box x Pin 3.937 2.4 3-++ 0.66 13,731.27 20) Wireline Re-entry Guide 3 1/2" 9.2# VAM Incolog 925 3.960 2.4 3-++ 0.66 13,731.27 20) Wireline Resentry Guide 3 1/2" 9.2# VAM Incolog 925 3.960 2.4	Installation Length Installation 1.33 1.33 4.86 1.76 8.00 1.99 3.00 0.55 3.00 1.25 3.00 0.55 3.00 0.55 3.00 0.55 3.01 12.00 0.83 6.33 6.33	13,700.00 13,703.11 13,715.11	DescriptionKB CorrectionTubing HangerCasing String) 7 5/8" 33.7# x 7" 29# & 32# Tapered Casing String1) 1 joint 3 1/2" 9.3# BTS-8 L-80 Tubing Joint Inverted2) Double Pin Sub (DCP)3) Tubing Subs (As Required) (DCP)4) 3 1/2" 9.3# BTS-8 L-80 Tubing5) 3 1/2" 9.3# BTS-8 L-80 Tubing5) 3 1/2" 9.3# BTS-8 L-80 Tubing5) 3 1/2" 9.3# BTS-8 L-80 Tubing6) Halliburton Tubing Retrievable Safety Valve-NE 3 1/2" 9.2#AB TC-II Box X Pin 102588547 SN ###### Nickel Alloy 925 10KRated 875 Minimum PSI Closing, 2000 PSI Open, 2.813" R Profile7) 3 1/2" 9.2# AB TC-II Box X 3 1/2" 9.3# BTS-8 Pin L-80 Sub (DCP)8) 3 1/2" 9.3# BTS-8 L-80 VAMTOP steel tubing to 13,400'9) 3 1/2" 9.3# BTS-8 Box X 3 1/2" 9.2# VAMTOP Pin L-80 Sub (DCP)10) 3 1/2" 9.3# BTS-8 Box X 3 1/2" 9.2# VAMTOP Pin L-80 Sub (DCP)10) 3 1/2" 9.3# BTS-8 Rox X 3 1/2" 9.2# VAMTOP Box x Pin(102204262) Nickel Alloy 9251012204262) Nickel Alloy 925102204262) Nickel Alloy 9251012204262) Nickel Alloy 9251122204262) Nickel Alloy 925 (1020351212)(SN ######)A2) 2-Seal Unit Ext. 3 1/2" 10.2 VAMINSIDE Nickel Alloy 925Molded AFLAS/Flourel Seals 4.07 OD, 8000 PSI102133500/(SN ########)A3) 3-Seal Units 4" X 3 1/2" 10.2 VAMINSIDE Nickel Alloy 925Molded AFLAS/Flourel Seals 4.07 OD, 8000 PSI102133500/(SN ##########Halliburton 7" 26-32# BWD Permanent Packer 4.00" BoreIncoloy 925 (101303583) (SN ########14) Seal Bore Extension 4.00" X 12' Incoloy 925 (120051359)(SN-######### <t< td=""><td>OD 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.907 3.900 3.960 3.960 5.875 5.020 5.650 3.540</td><td></td></t<>	OD 3.500 3.500 3.500 3.500 3.500 3.500 3.500 3.907 3.900 3.960 3.960 5.875 5.020 5.650 3.540		
	8	13,729.94 13,731.27	19) Halliburton 2.562" R Nipple 3 1/2" 9.2# VAMTOP Box x Pin (102204262) (SN-#######) Nickel Alloy 925 20) Wireline Re-entry Guide 3 1/2" 9.2# VAM Incoloy 925	3.937	2.99 2.56 2.99	

Conditions of Approval

OPERATOR'S NAME:	DCP Midstream LP
LEASE NO.:	NM0149956
WELL NAME & NO .:	2-Zia AGI
SURFACE HOLE FOOTAGE:	1900'/S & 950'/W
BOTTOM HOLE FOOTAGE	1655'/S & 1655'/W
LOCATION:	Sec. 19, T. 19 S., R. 32 E.
COUNTY:	Lea County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Delaware formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly
 plugged, the drilling rig shall not be removed from over the hole without prior approval. If
 the drilling rig is removed without approval an Incident of Non-Compliance will be
 written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Risks:

Possibility of Water Flows in the Capitan Reef, in the Salado and in the Artesia Group. Possibility of Lost Circulation in the Rustler, Capitan Reef, Red Beds, Delaware and in the Artesia Group.

- The 20 inch surface casing shall be set at approximately 800 feet (in a competent bed <u>below</u> <u>the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the 13 3/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the 9 5/8 inch production casing is: Operator has proposed DV tool at depth of 2650'. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the 7-5/8 and 7 inch intermediate casing is:

Operator has proposed DV tool at depth of 6350'. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- c. First stage to DV tool:,
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- d. Second stage above DV tool:
- Cement to surface. Operator to provide method of verification.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **surface casing shoe** shall be **2000 (2M)** psi.
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8 inch intermediate casing shoe shall be 10,000 (10M) psi. 10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7 5/8 inch intermediate casing shoe shall be 5000 (5M) psi.
 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. WELL COMPLETION

A NOI sundry with the procedure to complete this well in compliance with BLM and NMOCD requirements shall be submitted and approved prior to commencing completion work.

The procedure will be reviewed to verify that the completion will allow the operator to restrict the injection fluid to the approved formation. NOTE: The sundry shall include data from the conventional core analysis and logs with detailed analysis of the reservoir seal depth related to the perforation interval and the packer setting depth. It may also need to include previously submitted information.

DO NOT install injection tubing until approval is received

NOTE: (include with NOI sundry) prior to beginning Acid Gas Injection at the well, the Operator shall provide all Operators of existing wells within a 1 mile radius with a notice of beginning injection operations and include a map of the possible worst case scenario H2S exposure area(s). BLM is to be copied on this notice mailing. (H2S Public Protection Plan)

An MIT test must be conducted annually and submitted to the BLM via subsequent sundry.

F. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

G. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

TMAK 10142016

INTENT TO SPUD WELL

 Date Submitted:
 10/28/16

 Date Approved:
 11/4/16

Attachments: None

Form 3160-5 (August 2007) DE	UNITED STATES		OMB 1	I APPROVED NO. 1004-0135 I: July 31, 2010		
	JREAU OF LAND MANAG	S'A	5. Lease Serial No. NMLC065863	5 July 31, 2010		
Do not use thi abandoned wel	s form for proposals to I. Use form 3160-3 (APL	drill or to re-enter an	Carlsbad Field	pr Tribe Name		
		tions on reverse side.	OCD Hob	elment, Name and/or No.		
	PLICATE - Other Instruc	tions on reverse side.		~~		
 Type of Well Oil Well Gas Well Oth 	er v	62	8. Well Name and No ZIA AGI 2	8. Well Name and No. ZIA AGI 2		
2. Name of Operator DCP MIDSTREAM LP	Contact: E-Mail: aag@geole	JARED R SMITH	9. API Well No. 30-025-42207-	-00-X1		
3a. Address 370 17TH STREET SUITE 25 DENVER, CO 80208 5406	00	3b. Phone No. (include area code Ph: 505-842-8000 Fx: 505-842-7380) 10. Field and Pool, o AGI	or Exploratory		
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description,)	11. County or Parish	, and State		
Sec 19 T19S R32E Lot 3 1893 32.644036 N Lat, 103.811145			LEA COUNTY	, NM		
12. CHECK APPH	ROPRIATE BOX(ES) TO) INDICATE NATURE OF	NOTICE, REPORT, OR OTH	ER DATA		
TYPE OF SUBMISSION		TYPE O	F ACTION			
Notice of Intent	Acidize	Deepen	Production (Start/Resume)	UWater Shut-Off		
-	□ Alter Casing	Fracture Treat	□ Reclamation	U Well Integrity		
Subsequent Report	Casing Repair	New Construction	Recomplete	Other Well Spud		
Final Abandonment Notice	Change Plans	Plug and Abandon Plug Back	 Plug and Abandon Temporarily Abandon Plug Back Water Disposal 			
determined that the site is ready for fi SPUD NOTICE. DCP Midstream LP intends to		en the afternoon of October	31 or morning of			
November 1. The duration of the well drilling	g is estimated at 47 days.					
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #4	356297 verified by the BLM We	Il Information System			
Commi	For DCP itted to AFMSS for process	MIDSTREAM LP, sent to the H sing by DEBORAH MCKINNEY	ell Information System Hobbs on 10/31/2016 (17DLM0066SE)			
Name (Printed/Typed) JARED R	SMITH	Title CONS	ULTANT TO DCP MIDSTREM,	LP		
Signature (Electronic S	ubmission)	Date 10/28/2	2016			
	THIS SPACE FO	R FEDERAL OR STATE	OFFICE USE			
Approved By_TEUNGKU MUCHLI	S KRUENG	TitlePETROL	EUM ENGINEER	Date 11/04/201		
onditions of approval, if any, are attached rtify that the applicant holds legal or equ hich would entitle the applicant to condu	 Approval of this notice does itable title to those rights in the 	not warrant or	*			
itle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s				or agency of the United		

CHANGE TO THE 5M BOP SYSTEMS ON THE 9 5/8-INCH CASING HOLE TO INCLUDE THREE RAMS INSTEAD OF TWO

 Date Submitted:
 11/2/16

 Date Approved:
 11/4/16

Attachments:

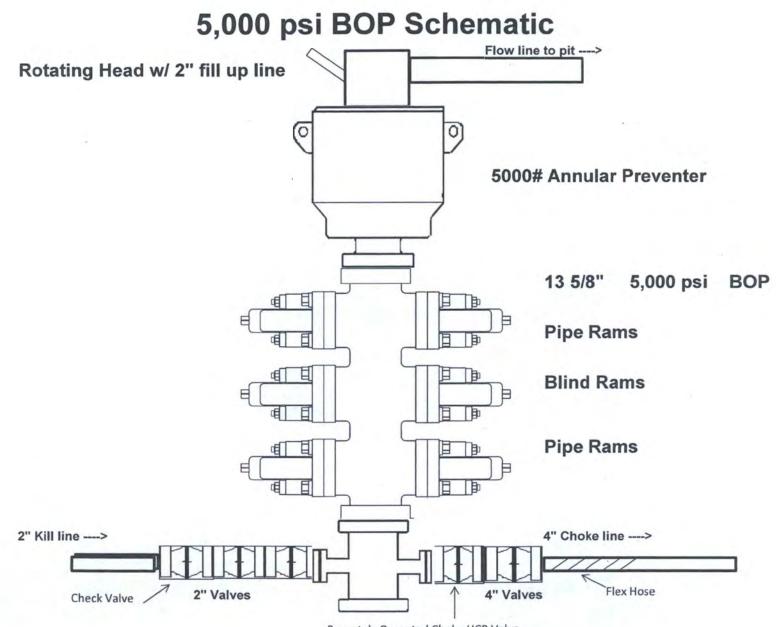
5M BOP/BOPE Schematic 5M Choke Manifold Equipment

	UNITED STATES PARTMENT OF THE IN REAU OF LAND MANAG		1	APPROVED IO. 1004-0135 : July 31, 2010
SUNDRY N Do not use this	NOTICES AND REPOR form for proposals to Use form 3160-3 (APL	RTS ON WELLS drill or to re-enter an o) for such proposals.	bad Field Phane Serial No. Expires Lease Serial No. Field Constant CD Field Constant Field Constant CD Field Constant CONSTANT CONSTA	CC be Name
SUBMIT IN TRIF	LICATE - Other instruc	tions on reverse side. 🤣	7. If Unit or CA/Agr	eement, Name and/or No.
1. Type of Well	9 7 *	No.	8. Well Name and No ZIA AGI 2	V
2. Name of Operator DCP MIDSTREAM LP		ALBERTO A GUTIERREZ	9. API Well No. 30-025-42207-	00-X1
3a. Address 370 17TH STREET SUITE 250 DENVER, CO 80208 5406	00	3b. Phone No. (include area code Ph: 505-842-8000	10. Field and Pool, o AGI	r Exploratory
 Location of Well (Footage, Sec., T., Sec 19 T19S R32E Lot 3 1893 32.644036 N Lat, 103.811145 	FSL 950FWL V)	11. County or Parish LEA COUNTY	
12. CHECK APPR	OPRIATE BOX(ES) TO	DINDICATE NATURE OF	NOTICE, REPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION		TYPE O	F ACTION	
 Notice of Intent Subsequent Report Final Abandonment Notice 	 Acidize Alter Casing Casing Repair Change Plans 	 Deepen Fracture Treat New Construction Plug and Abandon 	 Production (Start/Resume) Reclamation Recomplete Temporarily Abandon 	 □ Water Shut-Off □ Well Integrity ⊠ Other
 Describe Proposed or Completed Ope If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi DCP Midstream LP is submittin to include 3 rams instead of 2. Choke Manifold Equipment scl 	Ily or recomplete horizontally, k will be performed or provide operations. If the operation re andonment Notices shall be fil nal inspection.) ng a BLM requested chai See attached for the upo	give subsurface locations and meas the Bond No. on file with BLM/BL sults in a multiple completion or rec ed only after all requirements, inclu	ured and true vertical depths of all pert A. Required subsequent reports shall b ompletion in a new interval, a Form 3 ding reclamation, have been completed n the 9 5/8-inch hole	tinent markers and zones. be filed within 30 days 160-4 shall be filed once
Previous COA S	till apoly			

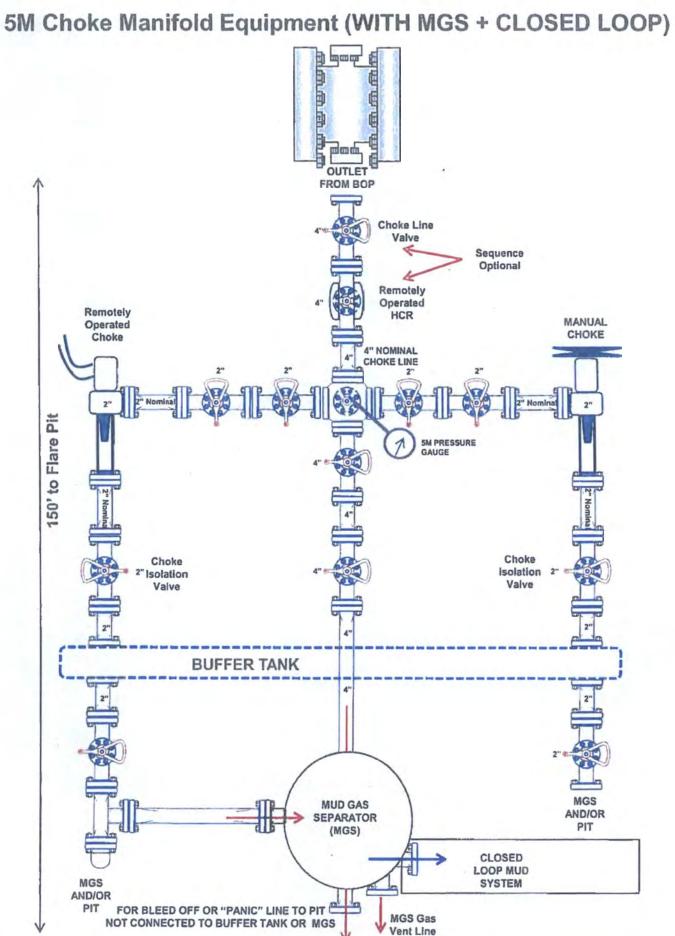
14. I hereby certify that the	he foregoing is true and correct. Electronic Submission #356888 verifie For DCP MIDSTREAM Committed to AFMSS for processing by DEBO	LP, sei	nt to the Hobbs	:)
Name (Printed/Typed)	ALBERTO A GUTIERREZ	Title	CONSULTANT TO DCP MIDSTRE	EM, LP
Signature	(Electronic Submission)	Date	11/02/2016	
	THIS SPACE FOR FEDERA	LOR	STATE OFFICE USE	
Approved By TEUNG		TitleF	ETROLEUM ENGINEER	Date 11/04/2016
certify that the applicant hol	ny, are attached. Approval of this notice does not warrant or ds legal or equitable title to those rights in the subject lease licant to conduct operations thereon.	Office	Hobbs	
	1 and Title 43 U.S.C. Section 1212, make it a crime for any pe or fraudulent statements or representations as to any matter w			ent or agency of the United

** BLM REVISED **

MOUR/OCD 11/14/2016



Remotely Operated Choke HCR Valve



REVISION TO THE 10M BOP/BOPE SYSTEM FOR THE 8 ³/₄-INCH HOLE

 Date Submitted:
 11/2/16

 Date Approved:
 11/4/16

Attachments:

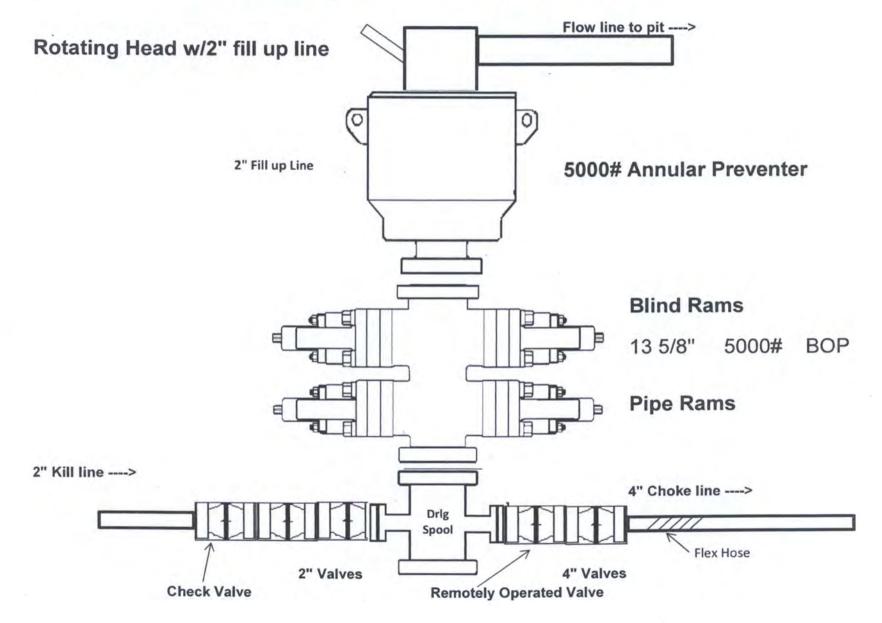
5M BOP Schematic 5M Choke Manifold Equipment Updated Conditions of Approval

(August 2007)	DE	UNITED STATES				OMB NO	APPROVED 0. 1004-0135
	BU	JREAU OF LAND MANA	GEMENT	Carl	shad 1	Expires:	July 31, 2010
		NOTICES AND REPO s form for proposals to		LS ofter an	OCD		lce
	abandoned well	I. Use form 3160-3 (AP	D) for such pro	posals.	UCD	Hobbstottee	r Tribe Name
	SUBMIT IN TRIF	PLICATE - Other instruc	ctions on rever	se side. 7	°C)	7. If Unit or CA/Agree	ement, Name and/or No.
 Type of Well Oil Well 	Gas Well Oth	er		CEL.	15	8. Well Name and No. ZIA AGI 2	/
2. Name of Oper DCP MIDS	rator TREAM LP	Contact: E-Mail: aag@geol	ALBERTO A G ex.com	UTIERREZ)	9. API Well No. 30-025-42207-0	00-X1
	STREET SUITE 250 CO 80208 5406	00	3b. Phone No. (i Ph: 505-842-)	10. Field and Pool, or AGI	Exploratory
		, R., M., or Survey Description	1)			11. County or Parish,	and State
	9S R32E Lot 3 1893 N Lat, 103.811145					LEA COUNTY,	NM
	12. CHECK APPR	OPRIATE BOX(ES) TO	O INDICATE N	ATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF :	SUBMISSION			TYPE O	F ACTION		
Notice of	Intent	Acidize	Deepe	n	Produc	tion (Start/Resume)	□ Water Shut-Off
		Alter Casing	G Fractu	re Treat	C Reclam	ation	U Well Integrity
□ Subseque		Casing Repair		Construction	Recom		Other Change to Original
Final Aba	andonment Notice	 Change Plans Convert to Injection 		nd Abandon	□ Tempo	rarily Abandon	PD
testing has be	en completed. Final Ab hat the site is ready for fi	operations. If the operation re andonment Notices shall be fi nal inspection.) y requests a revision to t	led only after all red	quirements, inclu	ding reclamatio	n, have been completed,	and the operator has
DCP Midstr from a:		y requests a revision to r					
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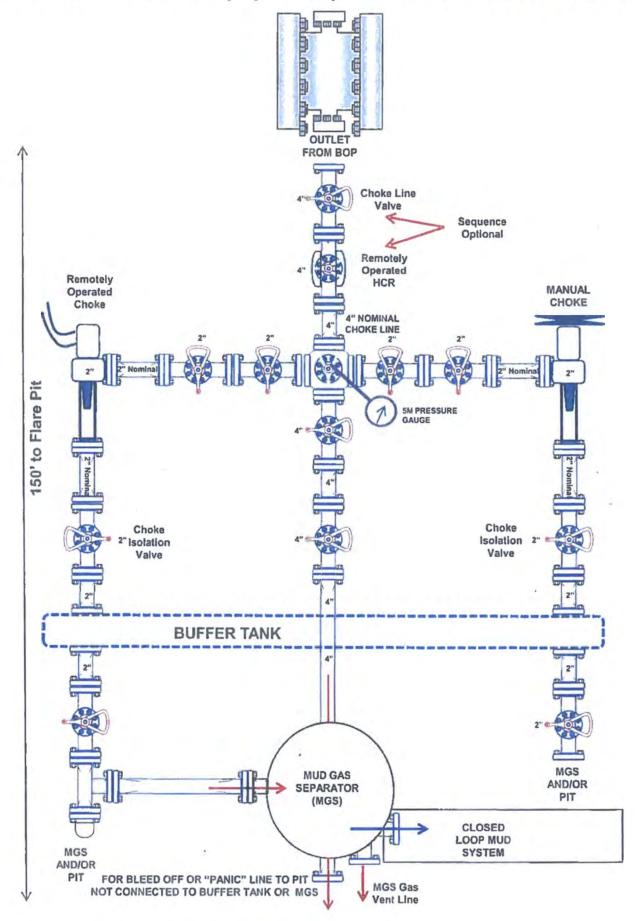
** BLM REVISED **

1

5,000 psi BOP Schematic



5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



1

Conditions of Approval

OPERATOR'S NAME:	DCP Midstream LP	
LEASE NO.:	NM0149956	
WELL NAME & NO .:	2-Zia AGI	
SURFACE HOLE FOOTAGE:	1900'/S & 950'/W	
BOTTOM HOLE FOOTAGE	1655'/S & 1655'/W	
LOCATION:	Sec. 19, T. 19 S., R. 32 E.	
COUNTY:	Lea County, New Mexico	

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
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- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Risks:

Possibility of Water Flows in the Capitan Reef, in the Salado and in the Artesia Group. Possibility of Lost Circulation in the Rustler, Capitan Reef, Red Beds, Delaware and in the Artesia Group.

- The 20 inch surface casing shall be set at approximately 800 feet (in a competent bed <u>below</u> <u>the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the 13 3/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the 9 5/8 inch production casing is: Operator has proposed DV tool at depth of 2650'. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the 7-5/8 and 7 inch intermediate casing is:

Operator has proposed DV tool at depth of 6350'. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- c. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- d. Second stage above DV tool:
- Cement to surface. Operator to provide method of verification.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **surface casing shoe** shall be **2000 (2M)** psi.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8 inch intermediate casing shoe shall be 5000 (5M) psi.
 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. WELL COMPLETION

A NOI sundry with the procedure to complete this well in compliance with BLM and NMOCD requirements shall be submitted and approved prior to commencing completion work.

The procedure will be reviewed to verify that the completion will allow the operator to restrict the injection fluid to the approved formation. NOTE: The sundry shall include data from the conventional core analysis and logs with detailed analysis of the reservoir seal depth related to the perforation interval and the packer setting depth. It may also need to include previously submitted information.

DO NOT install injection tubing until approval is received

NOTE: (include with NOI sundry) prior to beginning Acid Gas Injection at the well, the Operator shall provide all Operators of existing wells within a 1 mile radius with a notice of beginning injection operations and include a map of the possible worst case scenario H2S exposure area(s). BLM is to be copied on this notice mailing. (H2S Public Protection Plan)

An MIT test must be conducted annually and submitted to the BLM via subsequent sundry.

F. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

G. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

TMAK 11042016

INSTALL SURFACE CASING AND NAME CHANGE

Date Submitted:	11/10/16
Date Approved:	12/15/16

Attachments:Fluid Caliper Log
Gamma Ray, ROP and Correlation Logs
Schematic of Zia AGI D #2 As-Built Well Design
Surface Casing Tally
Photographs of Cement Returns
Halliburton Cement Report
Halliburton Laboratory Results
Schlumberger Cement Bond Log
BOP/BOPE Pressure and Casing Integrity Test Charts
Notifications Made to the BLM

					OCD-HC	DBBS	
Form 3160-5 (June 2015) DE						APPROVED 0. 1004-0137 January 31, 2018	
SUNDRY	NOTICES AND REPOR	RTS ON WE	EBS OC		5. Lease Serial No. •NMNM0149956	LCO6	5863
abandoned wel	s form for proposals to o I. Use form 3160-3 (APD	drill or to re-)) for such p	rappsals, 2017		6. If Indian, Allottee	or Tribe Name	1
SUBMIT IN 1	RIPLICATE - Other inst	ructions on	Page 2 EIVE	D	7. If Unit or CA/Agre	eement, Name and/	or No.
1. Type of Well Oil Well Gas Well 🛛 Oth	er: INJECTION				8. Well Name and No. ZIA AGI 2D	l+.	-
2. Name of Operator DCP MIDSTREAM, LP			GUTIERREZ		9. API Well No. 30-025-42207		
3a. Address 370 17TH STREET SUITE 25 DENVER, CO 80202	00	3b. Phone No Ph: 505-84	(include area code) 2-8000		10. Field and Pool or DEVONIAN EX		
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)				11. County or Parish,	State	
Sec 19 T19S R32E 1893FSL 9 32.643951 N Lat, 103.811116					LEA COUNTY,	NM	
12. CHECK THE AP	PROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE	, REPORT, OR OTI	HER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			_
□ Notice of Intent	□ Acidize	Deep	ben	Produc	tion (Start/Resume)	U Water Shu	t-Off
Subsequent Report	□ Alter Casing		raulic Fracturing	C Reclam		□ Well Integ	rity
	Casing Repair		Construction	C Recom	and the second second	☑ Other Drilling Oper	rations
Final Abandonment Notice	Convert to Injection	Change Plans Plug and A Convert to Injection Plug Back					
DCP Midstream LP respectfull from Zia AGI #2D to Zia AGI # conventions and database issu Pursuant to BLM?s request, G form submission Surface casing was run on Thi 826 ft. The casing was seated underlying Salt Top in a comp casing was installed after runn calculate cement volumes. Th hole size of approximately 29 i	D2. This name change was ues that are complicated vieolex is submitting this na ursday, November 3, 2016 in the Magenta anhydritic etent formation that provid ing a fluid caliper log to ev the fluid caliper log (attache	as required b vith well num ame change i 6 in a 26-inch dolomite at les a solid ar valuate the b ed) indicates	y the NMOCD do bers followed by equest as includ borehole drilled 326 ft., well abov d stable casing s orehole condition the borehole has	to a depth to a depth seat. The and a verage	ng 3160-5 of		
14. I hereby certify that the foregoing is Name (Printed/Typed) ALBERTO	Electronic Submission #3 For DCP M Committed to AFMSS for p	MIDSTREAM,	LP, sent to the H DEBORAH MCKI	obbs NNEY on 11		_P	
Signature (Electronic S			Date 11/10/20				
	THIS SPACE FO	R FEDERA	L OR STATE (OFFICE U	SE	DECODO	7
Approved By			Title	ALL	EPTED FUR	REGURD Date	
Conditions of approval, if any, are attached certify that the applicant holds legal or equ which would entitle the applicant to condu	itable title to those rights in the		Office		DFC 15 20	016	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a c statements or representations as t	crime for any pe to any matter wi	rson knowingly and thin its jurisdiction.	willfully to m		agency of the Unit	ted
(Instructions on page 2) ** OPERAT	OR-SUBMITTED ** OF	PERATOR-	SUBMITTED **	OPERA	FERUSOFLAND HA	NAGEMENT OFFICE	H

Additional data for EC transaction #357637 that would not fit on the form

32. Additional remarks, continued

logs are attached, including the correlation log between Zia AGI #1 and Zia AGI #D2 used for formation top picks.

The Zia AGI #D2 surface casing is constructed with 19 joints of 20 inch, 106.5 lbs/ft, J55, BTC pipe extended from the surface to 826 ft. A schematic of the Zia AGI #D2 well design and the as-built casing tally for the surface pipe is attached. The surface casing for the Zia AGI #D2 was cemented in one stage with 1425 sacks (297 bbls) of HalCem Cemex Premium Plus Class C cement with a lead yield of 1.728 ft3/sack and a tail yield of 1.364 ft3/sack. 487 sacks (150 bbls) were returned to the surface (photographs attached) and witnessed by a BLM representative (see attached cement report from Halliburton). Cement fell back approximately 13 feet from the surface and was filled back to the surface with RediMix. Wait on cement (WOC) time was 15 hours before installing and testing the BOP/BOPE (see attached Halliburton Lab Results).

A Cement Bond Log (CBL) was run on the surface casing that indicated a good bond from 23 ft. to 760 ft. (see attached Schlumberger CBL). The logging tool could not be fully lowered to the float collar at 779 ft. The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 2000 psi (see attached BOPE/BOP Pressure and Casing Integrity Test Charts). The surface casing was pressure tested at 1000 psi for 30 minutes resulting in a successful casing integrity test (see test #10 on BOPE/BOP Pressure and Casing Integrity Test Charts). The casing shoe was drilled out and drilling has continued below the surface casing in a 17 1/2 inch hole. Upper intermediate casing is scheduled to be set at approximately 2,555 ft.

See attached table for a chronological list of notifications that were made to the BLM.

INSTALL 1st INTERMEDIATE CASING – 3160-5

Date Submitted:	11/13/16
Date Approved:	12/1/16
Attachments:	Notifications Made to the BLM
	Open Hole Caliper Log
	Gamma Ray, ROP and Correlation Logs
	Schematic of Zia AGI D #2 As-Built Well Design
	First Intermediate Casing Tally
	Halliburton Cement Report
	Halliburton Laboratory Results
	Photographs of Cement Returns
	Schlumberger Cement Bond Log
	BOP/BOPE Pressure and Casing Integrity Test Charts

Form 3160-5 (August 2007)	DEPARTMENT	D STATES OF THE INTERIOR ND MANAGEMENT	NMC Hol	bbs	OMB N	APPROVED O. 1004-0135 July 31, 2010
SI	INDRY NOTICES A	ND REPORTS ON	WELLS	c	NMNM0149956	
abando	t use this form for pro oned well. Use form 3	posals to drill or to 160-3 (APD) for suc	h proposals.	D	6. If Indian, Allottee or Tribe Name	
SUBMI	T IN TRIPLICATE - Ot	her instructions on	everse side.	D	7. If Unit or CA/Agree	ement, Name and/or No.
I. Type of Well Oil Well Gas W	ell 🛛 Other: INJECTIC	DN			8. Well Name and No. ZIA AGI D2	V
2. Name of Operator DCP MIDSTREAM, L	P 🗸 E-Mai	Contact: ALBERTC l: aag@geolex.com	A GUTIERREZ		9. API Well No. 30-025-42207	
3a. Address 370 17TH STREET S DENVER, CO 80202		3b. Phone Ph: 505	No. (include area coo -842-8000	de)	10. Field and Pool, or DEVONIAN EX	
4. Location of Well (Foot			11. County or Parish,	and State		
Sec 19 T19S R32E M	ler NMP NWSW 1893F	FSL 950FWL 🗸			LEA COUNTY,	NM
12. CHE	CK APPROPRIATE B	OX(ES) TO INDICA	TE NATURE OF	F NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF SUBMISS	ON		TYPE	OF ACTION		
□ Notice of Intent	Acidize		Deepen	Produc	tion (Start/Resume)	□ Water Shut-Off
	Alter Ca	sing 🖸 H	Fracture Treat	Reclam	nation	U Well Integrity
Subsequent Report	Casing R	lepair D	New Construction	Recom	plete	Other Other
Final Abandonment	Notice Change I	Plans D H	lug and Abandon	Tempo	rarily Abandon	Drilling Operations
3. Describe Proposed or Con	unlated Opportion (algority of	ata all portinant datails inc	Juding actimated star	ting data of any	monored work and annea	vimate duration theme f
drilled to a depth of 2 wellbore in a compet installed after running condition and calcula logs are attached, ind formation top picks. The Zia AGI #D2 firsi .J55, BTC pipe and 5 2,555 ft. A schemati	diate casing was run on 555 ft. The casing was and formation that provide a Schlumberger Borel te cement volumes. The cluding the correlation left intermediate casing is 1 joints of 13 3/8-inch, fc c of the Zia AGI #D2 we ttached. The first interr	s seated in the Yates des a solid and stable hole Profile Log (attac ne gamma ray log and og between Zia AGI # constructed with 6 jo 5 lbs/ft, J55, BTC pipe ell design and the as-	formation at total a casing seat. The ched) to evaluate d rate of penetrati and Zia AGI #C ints of 13 3/8-inch e extended from the built casing tally for	depth of the e casing was the borehole on (ROP) drill 02 used for n, 68 lbs/ft, he surface to or the first	ing	
14. I hereby certify that the f	pregoing is true and correct.					\bigcirc
	Electronic Su	bmission #357814 ver For DCP MIDSTREA	ified by the BLM W M, LP, sent to the	Vell Informatio Hobbs	n System	1/
Name (Printed/Typed)	LBERTO A GUTIERRE	EZ	Title CONS		DCP MIDSTREM, L	
Signature (I	Electronic Submission)		Date 11/13	/2016	PTED FOR RE	CORD //
	THIS S	SPACE FOR FEDE	RAL OR STAT	E OFFICE U	SE DEC 1	
Approved By	Sec. Car	1.00	Title			antho
Conditions of approval, if any, ertify that the applicant holds which would entitle the applica	egal or equitable title to those	se rights in the subject leas	or	BUREA	U OF LAND MANAGER	MENT
Fitle 18 U.S.C. Section 1001 at States any false, fictitious or	d Title 43 U.S.C. Section 12 raudulent statements or repr	12, make it a crime for an esentations as to any matter	y person knowingly a r within its jurisdiction	nd willfully to m	ake to any department or	agency of the United
** (PERATOR-SUBMIT	TED ** OPERATO	R-SUBMITTED	** OPERAT	OR-SUBMITTED	+/
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Additional data for EC transaction #357814 that would not fit on the form

32. Additional remarks, continued

one stage with 1920 sacks (584 bbls) of HalCem Class C cement with a lead yield of 1.732 ft3/sack and a tail yield of 1.332 ft3/sack. 428 sacks (130 bbls) were returned to the surface (photographs attached) and witnessed by a BLM representative (see attached cement report from Halliburton). No fall back of cement was observed. Wait on cement (WOC) time was 28 hours from plug down, at 18:28 on Wednesday, until pressure testing of the BOP/BOPE, at 22:50 on Thursday (see attached Halliburton Lab Results).

A Cement Bond Log (CBL) was run on the first intermediate casing that indicated a good bond from 400 ft. to 2555 ft. (see attached Schlumberger CBL). The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 2000 psi. The 1st intermediate casing was pressure tested at 1000 psi for 30 minutes resulting in a successful casing integrity test (see attached BOPE/BOP Pressure and Casing Integrity Test Charts). The casing shoe was drilled out and drilling has continued below the 1st intermediate casing in a 17 ?-inch hole.

See attached table for a chronological list of notifications that were made to the BLM during the drilling and completion of this segment.

INSTALL 1st INTERMEDIATE CASING – C-103

Date Submitted:	11/17/16					
Date Approved:	11/22/16					
Attachments:	Notifications Made to the BLM					
	Open Hole Caliper Log					
	Gamma Ray, ROP and Correlation Logs					
	Schematic of Zia AGI D #2 As-Built Well Design					
	First Intermediate Casing Tally					
	Halliburton Cement Report					
	Halliburton Laboratory Results					
	Photographs of Cement Returns					
	Schlumberger Cement Bond Log					
	BOP/BOPE Pressure and Casing Integrity Test Charts					

Submit 1 Copy To Appropriate District Office	exico Iral Resource	e	Form C-1 Revised July 18, 20				
District I – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283	5 N. French Dr., Hobbs, NM 88240 rict II – (575) 748-1283 S. First St., Artesia, NM 88210 OIL CONSERVATION DIVISION						
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	5.	5. Indicate Type of Lease STATE FEE K					
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM REI 87505	Santa Fe	e, NM 8'	7505		State Oil & Gas I M 0149956	Lease No.	
(DO NOT USE THIS FORM FOR PROPOS. DIFFERENT RESERVOIR. USE "APPLIC.		PEN OR PL	UG BACK TO A		Lease Name or U		
PROPOSALS.) 1. Type of Well: Oil Well G	as Well 🗌 🛛 Other: 🖂	Acid Ga	s Injection	8.	Well Number		1
2. Name of Operator DCP MIDSTREAM LP				9.	OGRID Number 025575 .3	6785	
 Address of Operator 370 17TH STREET, SUITE 2500, DI 	ENVER, CO 80202			10). Pool name or W DEVONIAN EX	ldcat	
4. Well Location							
Unit Letter L : 1893	feet from the	South	line and	950	feet from the	West	line
Section 19	Township	19S	Range	32E	NMPM	County	LEA
	11. Elevation (Show wh 3548 ft. Ground Lev		, RKB, RT, GR	2, etc.)			
12. Check A	ppropriate Box to In	dicate N	ature of Not	tice, Re	port or Other D	ata	

NOTICE OF IN	ITENTION TO:	SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WORK ALTERING CASING	
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRILLING OPNS. P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL		CASING/CEMENT JOB	
DOWNHOLE COMMINGLE				
CLOSED-LOOP SYSTEM			19 000	
OTHER:			OTHER:	

 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.

First (upper) intermediate casing was run on Wednesday, November 9, 2016 in a 17.5-inch borehole drilled to a depth of 2,555 ft. The casing was seated in the Yates formation at the total depth of the wellbore in a competent formation that provides a solid and stable casing seat. The casing was installed after running a Schlumberger Borehole Profile Log to evaluate the borehole condition and calculate cement volumes. The gamma ray log and rate of penetration (ROP) drilling logs are attached, including the correlation log between Zia AGI #1 and Zia AGI D #2 used for formation top picks.

The Zia AGI #D2 first intermediate casing is constructed with 6 joints of 13 3/8-inch, 68 lbs/ft, J55, BTC pipe and 51 joints of 13 3/8-inch, 6 lbs/ft, J55, BTC pipe extended from the surface to 2,555 ft. A schematic of the Zia AGI D #2 well design and the as-built casing tally for the first intermediate pipe is attached. The first intermediate casing for the Zia AGI D #2 was cemented in one stage with 1920 sacks (584 bbls) of HalCem Class C cement with a lead yield of 1.732 ft³/sack and a tail yield of 1.332 ft³/sack. 428 sacks (130 bbls) were returned to the surface (photographs attached) and witnessed by a BLM representative (see attached cement report from Halliburton). No fall back of cement was observed. Wait on cement (WOC) time was 28 hours from plug down, at 18:28 on Wednesday, until pressure testing of the BOP/BOPE, at 22:50 on Thursday (see attached Halliburton Lab Results).

A Cement Bond Log (CBL) was run on the first intermediate casing that indicated a good bond from 400 ft. to 2555 ft. The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 2000 psi. The 1st intermediate casing was pressure tested at 1000 psi for 30 minutes resulting in a successful casing integrity test (see attached BOPE/BOP Pressure and Casing Integrity Test Charts). The casing shoe was drilled out and drilling has continued below the 1st intermediate casing in a 17 ¼-inch hole.

All geophysical logs will be provided when continuous copies are available. See attached table for a chronological list of notifications that were made to the BLM during the drilling and completion of this segment.

S	pud	Date:

November 2, 2016

Rig Release Date:

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

CONSULTANT TO DCP MIDSTREM LP DATE 11/17/2016 SIGNATURE Michael W Selke E-mail address: MSELKE@GEOLEX.COM PHONE: 505-842-8000 Type or print name For State Use Only **Accepted for Record Only** APPROVED BY: DATE Conditions of Approval (if any): SUBJECT TO LIKE APPROVAL BY BLM 22/2016

INSTALL 2nd INTERMEDIATE CASING – 3160-5

Date Submitted:	11/18/16				
Date Approved:	12/15/16				
Attachments:	Gamma Ray, ROP and Correlation Logs				
	Schematic of Zia AGI D #2 As-Built Well Design				
	Second Intermediate Casing Tally				
	Halliburton Laboratory Results				
	Halliburton Cement Report				
	Photographs of Cement Returns				
	Schlumberger Cement Bond Log				
	BOP/BOPE Pressure and Casing Integrity Test Charts				
	Notifications to the BLM				

			-	COLD-HO	BBS	CARLSBAD	ELD OF	HASA (
Form 3160-5 June 2015)						FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM0149956 LC04584 6. If Indian, Allottee or Tribe Name			
	SUBMIT IN 1	RIPLICATE - Other ins	tructions on	Page EIVE	0	7. If Unit or CA/Agre	ement, Name and	I/or No.	
1. Type of Well	1	and the second se				8. Well Name and No. ZIA AGI D 2			
2. Name of Ope	1 🖸 Gas Well 🛛 Oth erator		ALBERTO A	GUTIERREZ		9. API Well No.	_		
	STREAM, LP	E-Mail: aag@geol			_	30-025-42207			
	STREET SUITE 250 CO 80202	DO	3b. Phone No Ph: 505-84	o. (include area code) 12-8000		10. Field and Pool or Exploratory Area DEVONIAN EXPL.			
4. Location of V	Well (Footage, Sec., T.	, R., M., or Survey Description	1)			11. County or Parish,	State		
	9S R32E Mer NMP N Lat, 103.811116	NWSW 1893FSL 950FW W Lon	/L			LEA COUNTY,	NM		
12	2. CHECK THE AP	PROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTIC	E, REPORT, OR OTI	HER DATA		
TYPE OF	SUBMISSION			TYPE OF	ACTION	1			
□ Notice o	fIntent	Acidize	Dee	pen	D Prod	uction (Start/Resume)	U Water Sh	ut-Off	
- 75.0 %		□ Alter Casing	D Hyd	Iraulic Fracturing	C Recl	amation	U Well Inte	grity	
Subseque	ent Report	Casing Repair	□ Nev	v Construction	Reco	mplete	Other		
G Final Ab	andonment Notice	Change Plans	3.000			Temporarily Abandon		Drilling Operations	
		Convert to Injection				er Disposal		_	
drilled to a competent calculate o formation The Zia Ad pipe, a DV 4,694. A s Attachmer	depth of 4,696 ft. T t formation that provi cement volumes. Co tops and the casing GID #2 second inter / tool with external co schematic of well dea ht 1.	ng was run on Sunday, N he casing was seated in ides a solid and stable ca orrelations between Zia A seat are included in Atta- rmediate casing includes asing packer at 2,608, a sign and the as-built casi wo stages. The first stag	the base of t asing seat. A GI #1 and Zi chment 1. 104 joints of float collar at ing tally for th	he Goat Seep for fluid caliper was a AGI D #2 used 9 5/8-inch, 40 lbs 4,646, and a cas e casing is includ	rmation ir used to to pick th s/ft, N55, ing shoe led in	e		3	
14. I hereby cer	rtify that the foregoing is	true and correct. Electronic Submission # For DCP Committed to AFMSS	358508 verifie MIDSTREAM, for processin	d by the BLM Wel LP, sent to the H by PAUL SWAR	l Informat obbs TZ on 12/1	ion System 2/2016 ()			
Name (Printe	ed/Typed) ALBERTO			The second s		O DCP MIDSTREM, L	P	_	
Signature	(Electronic S	ubmission)		Date 11/18/2	016				
0.6	(antinent)	THIS SPACE FO	OR FEDER			USE			
					ACCE	PTED FOR R	FCORD		
Approved By			224	Title	nool	TEPTONIN	Date		
ertify that the ap		d. Approval of this notice does itable title to those rights in the ct operations thereon.		Office		DEC: 1.5 2016			
Fitle 18 U.S.C. Se	ection 1001 and Title 43	U.S.C. Section 1212, make it a statements or representations as	crime for any p	erson knowingly and	willfully to		a circy of the U	iited	
		tatements or representations as	s to any matter w	ithin its jurisdiction.	1	Mawar	3	HA	
(Instructions on p	** OPERAT	OR-SUBMITTED ** O	PERATOR	SUBMITTED *	* OPER	ATOR-SUBMITTED	REMENT	V	
						CARLSBAD FIELD OFF	ILL		

Additional data for EC transaction #358508 that would not fit on the form

32. Additional remarks, continued

EconoCem HCL lead cement with a yield of 1.987 ft3/sack and 250 sacks (59 bbls) of HalCem Class C tail cement with a yield of 1.333 ft3/sack. The plug was successfully landed into the float collar and 144 sacks (51 bbls) of cement were circulated to the surface. The second stage consisted of 650 sacks (200 bbls) of HalCem Class C lead cement with a yield of 1.728 ft3/sack and 100 sacks (24 bbls) of HalCem Class C tail cement with a yield of 1.332 ft3/sack. The plug was successfully landed into the DV tool and 107 sacks (33 bbls) of cement were circulated to the surface as witnessed by a BLM representative. No fallback of cement was observed and the wait on cement time was 22 hours from plug down, at 22:30 on Sunday, until the DV tool was drilled out at 20:30 on Monday. The Halliburton cement laboratory results, cement report, and cement circulation photographs are included in Attachment 1.

The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 5,000 psi. A CBL was run with no casing pressure applied at the surface. It indicated a generally good bond from 1,000 to 1,320 ft, 1,900 to 2,570 ft, and 2,640 to 4,640 ft. The log was reviewed and evaluated by Geolex, Concho, and Schlumberger and it was determined that a micro-annulus was responsible for the areas where the cement bond appeared inconsistent. Because the locations were above the 13 3/8-inch casing shoe and associated with the 9 5/8-inch casing DV tool, it was decided that rerunning the log under pressure was unnecessary. The CBL is provided in Attachment 2.

Upon completion of the CBL a successful casing integrity test was performed at 1500 psi for 30 minutes. The 8 ?-inch borehole was drilled below the 9 5/8-inch casing shoe and 8 feet into the underlying formation. A formation integrity test was performed by applying 513 psi of pressure to the 9 5/8-inch casing for 10 minutes and 631 psi for 10 minutes with no evidence of formation breakdown. The successful results of all the pressure tests are provided in Attachment 1. Following the tests, drilling was continued below the 2nd intermediate casing into an 8 3/4-inch borehole.

A table that provides a chronological list of notifications that were made to the BLM during the drilling and completion of this segment is provided in Attachment 1.

INSTALL 2nd INTERMEDIATE CASING – C-103

Date Submitted:	11/17/16
Date Approved:	11/22/16
Attachments:	Gamma Ray, ROP and Correlation Logs
	Schematic of Zia AGI D #2 As-Built Well Design
	Second Intermediate Casing Tally
	Halliburton Laboratory Results
	Halliburton Cement Report
	Photographs of Cement Returns
	Schlumberger Cement Bond Log
	BOP/BOPE Pressure and Casing Integrity Test Charts
	Notifications to the BLM

Submit I Copy To Appropriate District State of New District I – (575) 393-6161	
1625 N. French Dr., Hobbs, NM 88240	WELL API NO.
District II - (575) 748-1283 811 S. First St., Artesia, NM 88210 NOV 22 2 OIL CONSERVATIO	1 > Indicate Lyne of Lease
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM.87410 1220 South St. F	STATE FEE STATE
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	87505 6. State Oil & Gas Lease No. NM 0149956
SUNDRY NOTICES AND REPORTS ON WEL (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101	PLUG BACK TO A N/A TTA ACT N
PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other: Acid	Gas Injection 8. Well Number
2. Name of Operator DCP MIDSTREAM LP	9. OGRID Number 025575 36785
 Address of Operator 370 17TH STREET, SUITE 2500, DENVER, CO 80202 	10. Pool name or Wildcat DEVONIAN EXPL.
4. Well Location	
Unit Letter L : 1893 feet from the Sout	h line and 950 feet from the West line
Section 19 Township 19S	Range 32E NMPM County LEA
11. Elevation (Show whether 1 3548 ft. Ground Level	DR, RKB, RT, GR, etc.)
12. Check Appropriate Box to Indicate	Nature of Notice, Report or Other Data

PERFORM REMEDIAL WORK	$\langle \Box \rangle$	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CA	SING
TEMPORARILY ABANDON		CHANGE PLANS	COMMENCE DRILLING O	PNS.	P AND A	
PULL OR ALTER CASING		MULTIPLE COMPL	CASING/CEMENT JOB	\boxtimes		
DOWNHOLE COMMINGLE						
CLOSED-LOOP SYSTEM						
OTHER:			 OTHER:			

 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.

The Second intermediate casing was run on Sunday, November 13, 2016 in a 12 1/4-inch borehole drilled to a depth of 4,696 ft. The casing was seated in the base of the Goat Seep formation in a competent formation that provides a solid and stable casing seat. A fluid caliper was used to calculate cement volumes. Correlations between Zia AGI #1 and Zia AGI D #2 used to pick the formation tops and the casing seat are included as an Attachment.

The Zia AGI D #2 second intermediate casing includes 104 joints of 9 5/8-inch, 40 lbs/ft, N55, BTC pipe, a DV tool with external casing packer at 2,608, a float collar at 4,646, and a casing shoe at 4,694. A schematic of well design and the as-built casing tally for the casing is included as an Attachment.

The casing was cemented in two stages. The first stage consisted of 450 sacks (159 bbls) of EconoCem HCL lead cement with a yield of 1.987 ft³/sack and 250 sacks (59 bbls) of HalCem Class C tail cement with a yield of 1.333 ft³/sack. The plug was successfully landed into the float collar and 144 sacks (51 bbls) of cement were circulated to the surface. The second stage consisted of 650 sacks (200 bbls) of HalCem Class C lead cement with a yield of 1.728 ft³/sack and 100 sacks (24 bbls) of HalCem Class C tail cement with a yield of 1.728 ft³/sack and 100 sacks (24 bbls) of HalCem Class C tail cement with a yield of 1.332 ft³/sack. The plug was successfully landed into the DV tool and 107 sacks (33 bbls) of cement were circulated to the surface as witnessed by a BLM representative. No fallback of cement was observed and the wait on cement time was 22 hours from plug down, at 22:30 on Sunday, until the DV tool was drilled out at 20:30 on Monday. The Halliburton cement laboratory results, cement report, and cement circulation photographs are included as an Attachment.

The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 5,000 psi. A CBL was run with no casing pressure applied at the surface. It indicated a generally good bond from 1,000 to 1,320 ft, 1,900 to 2,570 ft, and 2,640 to 4,640 ft. The log was reviewed and evaluated by Geolex, Concho, and Schlumberger and

it was determined that a micro-annulus was responsible for the areas where the cement bond appeared inconsistent. Because the locations were above the 13 3/8-inch casing shoe and associated with the 9 5/8-inch casing DV tool, it was decided that rerunning the log under pressure was unnecessary.

Upon completion of the CBL a successful casing integrity test was performed at 1500 psi for 30 minutes. The 8 ³/₄inch borehole was drilled below the 9 5/8-inch casing shoe and 8 feet into the underlying formation. A formation integrity test was performed by applying 513 psi of pressure to the 9 5/8-inch casing for 10 minutes and 631 psi for 10 minutes with no evidence of formation breakdown. The successful results of all the pressure tests are provided as an Attachment. Following the tests, drilling was continued below the 2nd intermediate casing into an 8 3/4-inch borehole.

All geophysical logs will be provided when continuous copies are available. A table that provides a chronological list of notifications that were made to the BLM during the drilling and completion of this segment is provided as an Attachment.

Spud Date:	November 2, 2016	Rig Release Date:	
I hereby certi	ify that the information above	is true and complete to the best of my knowle	edge and belief.
SIGNATURI	Michaelle	Selfer PITLE CONSULTANT TO	DCP MIDSTREM LP DATE 11/17/2016
		0-1-	
Type or print For State Us		Ike E-mail address: MSELKE@G	EOLEX.COM PHONE: 505-842-8000
APPROVED	BY:	Accepted for Record Only	DATE
	f Approval (if any):	- M Maxa	
		SUBJECT TO LIKE	
		APPROVAL DV DLAS	1 1
		Molece Storown 1	1/22/2016
		·	1 1
		0	

WELL COMPLETION NOTICE OF INTENT – 3160-5

Date Submitted:	12/2/16
Date Approved:	12/15/16
Attachments:	Completion Conditions of Approval
	As-Built Well Schematic
	BOP Schematic When Running Work String Tubing
	BOP Schematic When Running Injection Tubing
	BLM SRT Data Form

form 3160-5 June 2015) D	UNITED STATES EPARTMENT OF THE II BUREAU OF LAND MANA	S NTERIORHOBBS O	CD FORM OMB D Expires:	APPROVED NO. 1004-0137 January 31, 2018
SUNDRY	17 S. Lease Senal No. NMNM014995	5. Lease Serial No. 		
abandoned w	his form for proposals to ell. Use form 3160-3 (API	D) for such proposals.	6. If Indian, Allottee	or Tribe Name
SUBMIT IN	TRIPLICATE - Other inst			eement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ⊠ O	ther: INJECTION		8. Well Name and No ZIA AGI D 2),
2. Name of Operator DCP MIDSTREAM, LP	Contact: E-Mail: aag@geole	ALBERTO A GUTIERREZ	9. API Well No. 30-025-42207	
3a. Address 370 17TH STREET SUITE 2 DENVER, CO 80202	500	3b. Phone No. (include area code Ph: 505-842-8000) 10. Field and Pool or DEVONIAN EX	Exploratory Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)	11. County or Parish	, State
Sec 19 T19S R32E Mer NMF 32.643951 N Lat, 103.81111		L	LEA COUNTY	NM
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION	
Notice of Intent	C Acidize	Deepen	Production (Start/Resume)	□ Water Shut-Off
\wedge	Alter Casing	Hydraulic Fracturing	Reclamation	U Well Integrity
Subsequent Report	Casing Repair	New Construction	□ Recomplete	🛛 Other
- 2 전 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		□ Plug and Abandon	Temporarily Abandon	
Convert to Injection I3. Describe Proposed or Completed Operation: Clearly state all pertinent details, in		Plug Back	□ Water Disposal	
determined that the site is ready for Well Completion Notice of In	final inspection. tent		ompletion in a new interval, a Form 31 ding reclamation, have been completed SEE ATTAC MONDITIONS O	HED FOR
components of the well comp	pletion, including formation	testing will proceed as follow	S:	- Intraction the
1) Install 5,000 psi WP doubl	le ram hydraulic BOP as sł	nown on attached BOP schen	natic	52
2) Drill out bridge plug and p	ush to TD			
3) Set temporary bridge plug	on 3.5-inch work tubing at	10,000 feet, hang tubing, an	d install SUBJECT TO) LIKE
rental tree at the surface			APPROVAL	BY STATE
14. I hereby certify that the foregoing	Electronic Submission # For DCP	359790 verified by the BLM We MIDSTREAM, LP, sent to the H for processing by PAUL SWAR	lobbs	
Name (Printed/Typed) ALBERT			JLTANT TO DCP MIDSTREM,	LP
Signature (Electronic	: Submission)	Date 12/02/2	2016	
	THIS SPACE FO	OR FEDERAL OR STATE	OFFICE USE	
			I APPROV	FD
Approved By		Title		Date
Conditions of approval, if any, are attach ertify that the applicant holds legal or e	ned. Approval of this notice does quitable title to those rights in the duct operations thereon.	e subject lease Office	DEC 15 201	6
which would entitle the applicant to com				1 11 1
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious or fraudulen	3 U.S.C. Section 1212, make it a t statements or representations as	to any matter within its jurisdiction	willfully to make any department of	or agency of the United

Additional data for EC transaction #359790 that would not fit on the form

32. Additional remarks, continued

4) While under static conditions, run fiber optic slick line and bottom-hole pressure gauges to record static BHP and temperature profile

5) Swab approximately 500 bbls of fluid into the swab tanks while monitoring for recoverable hydrocarbons and recover appropriate formation water samples for laboratory analysis

6) Acidize injection zone (open hole) with 40,000 gallons of double inhibited NE Fe 20% HCl, flush with fresh water, and leave shut in overnight

7) Install BHP memory gauges on slick line, leave hanging as deep as possible, and allow 2 hours for BHP to stabilize.

8) Conduct an Step-Rate Test (SRT) with fresh water over the injection zone in accordance with attached BLM SRT form

9) Following the SRT, shut in the well for a 10 day fall-off test

10) Upon completion of the fall-off test and evaluation of the results, the temporary packer will be unseated and removed on the work string tubing.

11) A bit and casing scrapper will be run on the work string to approximately 13,600 feet. The work string will then be removed and laid down.

12) A wire line junk basket/gauge ring/dummy packer will be run to approximately 13,600 feet

13) The Incoloy 925 permanent packer assembly will be set on a wire line packer setting tool/GR/CCL at approximately 13,550 feet (approximately 70 feet above the casing shoe depth)

14) Assemble and install Incoloy 925 packer seats and pressure sensors with approximately 300 feet of 3.5-inch, 9.2 lb/ft, Inconel G-3, VAM Top injection tubing and 3.5-inch 9.2 lb/ft L-80 BTS-8 tubing as needed to approximately 250 feet below the surface

15) Assemble, test, and install subsurface safety valve on 3.5-inch 9.2 lb/ft L-80 BTS-8 tubing as needed to surface

16) Prior to stinging into the packer, the tubing and annulus will be filled with diesel and corrosion inhibitor biocide.

17) The tubing will be seated into the packer and the injection tree/tubing hanger will be installed and pressure tested up to 250 psi for 10 minutes followed by 5000 psi for 10 minutes.

18) A Mechanical Integrity Test (MIT) will be performed to verify that all components are properly installed and working.

Twenty-four hours prior to conducting the SRT and the MIT, notice will be provided to both the BLM and NMOCD so that these procedures can be witnessed. Well completion activities are tentatively scheduled to begin on December 8, 2016.

Conditions of Approval

DCP Midstream, LP Zia AGI – D2, API 3002542207x T19S-R32E, Sec 19, 1893FSL & 950FWL December 15, 2015

- 1. Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location for this workover operation.
- 2. Before casing or a liner is added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 3. Surface disturbance beyond the existing pad shall have prior BLM approval.
- 4. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 5. Functional H₂S monitoring equipment shall be on location.
- 6. 5000 (5M) Blow Out Prevention Equipment to be used. All BOPE and workover procedures shall establish fail safe well control. Blind ram(s) and pipe ram(s) designed to close on all workstring diameters used is required equipment. A manual BOP closure system (hand wheels) shall be available for use regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) shall be employed when needed for reasonable well control requirements.
- 7. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 8. The subsequent report is to include workover stimulation injection pressures. Report maximum/minimum injection rate (BPM) and max/min stimulation injection pressures (psig).
- 9. The well is considered a commercial hydrocarbon producer until proven otherwise. Provide statements with evidence that paying quantities of hydrocarbons cannot be produced. An electronic copy of the well's mudlog, and an estimated insitu water salinity based on copies of open hole logs are to be offered as evidence.
- 10. A minimum of 500 barrels is to be withdrawn from the proposed disposal formation after any recent stimulation load volumes have been recovered. A composite report of ten samples from the last 100bbls analyzed for hydrocarbons and insitu salinity by a reputable laboratory. The procedure is to be witnessed by BLM. Notify pswartz@blm.gov, 575-200-7902 24 hours prior to the 10 samples being taken.

- 11. Operator will provide BLM a summary report of all documented evidence demonstrating the presence of commercial recoverable hydrocarbons volumes that are present in the targeted disposal formation prior to disposal of fluid into the well.
- 12. The proposed Step 8 (Step Rate Test) is to be conducted as an "Injection Potential Test" to provide data to the operator and NMOCD. The data collected by Step 8. is not be used to request a pressure increase.
- 13. Step 8 is to be BLM witnessed and conducted with a fluid of consistent density. The peak rate is to be selected to achieve the peak formation pressure anticipated to meet the well's acid gas disposal volume requirements.
- 14. The Step Rate Test flow rates of the fluid (fresh water or brine) are to be controlled with a constant flow regulator and measured with a turbine flow meter calibrated within 0.1 bbl/min.
- 15. A down hole transmitting pressure device and a surface pressure device with accuracies of ±10psig are required for the Step Rate Test.
- 16. Step Rate Test formation and surface pressures are to be synchronized with BLM approved rate changes.
- 17. Record the indicated information of a "STEP RATE TEST DATA for BLM, CFO" data sheet. Provide BLM with the tabulated data and supporting documentation.
- 18. The proposed Mechanical Integrity Test of the NOI Step 18 is to be conducted after the wellbore equipment intended for acid gas injection/disposal is installed. Notify <u>pswartz@blm.gov</u>, 575-200-7902 24 hours prior to the MIT.
- 19. The minimum test pressure is 500 psig for 30 minutes with a minimum 200 psig differential between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. Verify all annular casing vents are plumbed to surface and those valves open to the surface during this pressure test.
- 20. Document the pressure test on a one hour full rotation chart recorder (calibrated within the last 6 months) registering within 35 to 75 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 21. Submit a (BLM Form 3160-5 subsequent report via BLM's Well Information System; <u>https://www.blm.gov/wispermits/wis/SP</u> (email <u>pswartz@blm.gov</u> for instructions) describing (dated daily) all wellbore activity and the Mechanical Integrity Test. Include descriptions of and the setting depths of all installed equipment. File intermediate Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.
- 22. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

WELL COMPLETION NOTICE OF INTENT – C-103

Date Submitted:	12/14/16
Date Approved:	12/16/16
Attachments:	As-Built Well Schematic
	BOP Schematic When Running Work String Tubing
	BOP Schematic When Running Injection Tubing
	BLM SRT Data Form

Submit 1 Copy To Appropriate District Office <u>District 1</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013 WELL API NO.
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	30-025-42207 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. NM 0149956
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)	ES AND REPORTS ON WELLS LLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A TION FOR PERMIT" (FORM C-101) FOR SUCH as Well Other: Acid Gas Injections OCD	7. Lease Name or Unit Agreement Name N/A 8. Well Number D2
2. Name of Operator DCP MIDSTREAM LP	DEC 21 2016	9. OGRID Number 025575
 Address of Operator 370 17TH STREET, SUITE 2500, DE 		10. Pool name or Wildcat DEVONIAN EXPL.
4. Well Location	(LOLITING)	
Unit Letter L : 1893	feet from theSouthline and9	50feet from theWestline
Section 19	Township 19S Range	32E NMPM County LEA
	 Elevation (Show whether DR, RKB, RT, GR, etc. 3548 ft. Ground Level 	:.)

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

NOTICE OF IN	ITENTION TO:	SUBSEQUENT RE	PORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS.	PANDA
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JOB	
DOWNHOLE COMMINGLE			
CLOSED-LOOP SYSTEM			
OTHER:		OTHER:	

 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.

The current well completion schematic with proposed tubing is provided as an attachment. Major components of the well completion, including formation testing will proceed as follows:

- 1) Install 5,000 psi WP double ram hydraulic BOP as shown on attached BOP schematic
- 2) Drill out bridge plug and push to TD
- Set temporary bridge plug on 3.5-inch work tubing at 10,000 feet, hang tubing, and install rental tree at the surface
- 4) While under static conditions, run fiber optic slick line and bottom-hole pressure gauges to record static BHP and temperature profile
- 5) Swab approximately 500 bbls of fluid into the swab tanks while monitoring for recoverable hydrocarbons and recover appropriate formation water samples for laboratory analysis
- 6) Acidize injection zone (open hole) with 40,000 gallons of double inhibited NE Fe 20% HCl, flush with fresh water, and leave shut in overnight
- Install BHP memory gauges on slick line, leave hanging as deep as possible, and allow 2 hours for BHP to stabilize.
- Conduct an Step-Rate Test (SRT) with fresh water over the injection zone in accordance with attached BLM SRT form
- 9) Following the SRT, shut in the well for a 10 day fall-off test
- 10) Upon completion of the fall-off test and evaluation of the results, the temporary packer will be unseated and removed on the work string tubing.
- 11) A bit and casing scrapper will be run on the work string to approximately 13,600 feet. The work string will then be removed and laid down.
- 12) A wire line junk basket/gauge ring/dummy packer will be run to approximately 13,600 feet

- 13) The Incoloy 925 permanent packer assembly will be set on a wire line packer setting tool/GR/CCL at approximately 13,550 feet (approximately 70 feet above the casing shoe depth)
- 14) Assemble and install Incoloy 925 packer seats and pressure sensors with approximately 300 feet of 3.5inch, 9.2 lb/ft, Inconel G-3, VAM Top injection tubing and 3.5-inch 9.2 lb/ft L-80 BTS-8 tubing as needed to approximately 250 feet below the surface
- 15) Assemble, test, and install subsurface safety valve on 3.5-inch 9.2 lb/ft L-80 BTS-8 tubing as needed to surface
- Prior to stinging into the packer, the tubing and annulus will be filled with diesel and corrosion inhibitor biocide.
- 17) The tubing will be seated into the packer and the injection tree/tubing hanger will be installed and pressure tested up to 250 psi for 10 minutes followed by 5000 psi for 10 minutes.
- A Mechanical Integrity Test (MIT) will be performed to verify that all components are properly installed and working.

Twenty-four hours prior to conducting the SRT and the MIT, notice will be provided to both the BLM and NMOCD so that these procedures can be witnessed. Well completion activities are tentatively scheduled to begin in on December 8, 2016.

Spud Date:	November 2	, 2016	Rig Release Date:	
I hereby certi SIGNATURI	11	rmation above is true and		of my knowledge and belief.
Type or print For State Us		JARED R. SMITH	E-mail address:	JSMITH@GEOLEX.COM_ PHONE: _505-842-8000_
APPROVED		ny):	TITLE	Petroleum Engineer DATE 12/16/16

INSTALL PRODUCTION CASING – 3160-5

Date Submitted:	12/14/16
Date Approved:	12/15/16
Attachments:	Porosity, Resistivity, and Sonic Logs
	Well Schematic
	Casing and Cement Summary Tables
	Casing Tally
	Cement Lab Results
	Cement Job Summary
	Cement Circulation Photographs
	BOP/BOPE test, CIT, and FIT

Form 3160-5 (June 2015) DE HOBES OCD DE BI Do not use this abandoned we	UNITED STATES	TERIOR TRAC	OMB	(APPROVED (0. 1004-0137 January 31, 2018
SUNDRY	UREAU OF LAND MANAG	RTS ON WELLS Habl	5 Lease Serial No	
HO Do not use this	is form for proposals to II. Use form 3160-3 (APL	drill or to re-enter an	6. If Indian, Allottee	or Tribe Name
SEU.	TRIPLICATE - Other inst	ructions on page 2	7. If Unit or CA/Agro	eement, Name and/or No.
1. Type of Well ☐ Gas Well ☐ Oth	ner		8. Well Name and No ZIA AGI D2	· · ·
2. Name of Operator DCP MIDSTREAM LP	Contact: / / E-Mail: aag@geole	ALBERTO A GUTIERREZ x.com	9. API Well No. 30-025-42207-	00-X1
3a. Address 370 17TH STREET SUITE 25 DENVER, CO 80208 5406	00	3b. Phone No. (include area code) Ph: 505-842-8000	10. Field and Pool or AGI	Exploratory Area
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)	0	11. County or Parish,	State
Sec 19 T19S R32E Lot 3 1893 32.644036 N Lat, 103.811145			LEA COUNTY,	NM
12. CHECK THE AF	PROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
D Nation of Latent	Acidize	Deepen	Production (Start/Resume)	□ Water Shut-Off
□ Notice of Intent	Alter Casing	Hydraulic Fracturing	Reclamation	□ Well Integrity
Subsequent Report	Casing Repair	□ New Construction	Recomplete	🛛 Other
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abandon	Drilling Operation
	Convert to Injection	Plug Back	Water Disposal	
The Production casing was run The casing was seated 15 fee geophysical logs were run, inc The 7-inch production casing a for exposure to acid gas. Gene casing from 302 to 4,955 feet and f combination of Halliburton Tur The casing was cemented in th with 128 sacks (48 bbls) of cent Mathematical States (48 bbls) of cent Mathematical Sta	t into the top of the Devon luding a caliper log to calc and cement was more con erally, it included 7 5/8-inc and from 6,363 to 13,329 from 13,329 to the float sho hed Light lead cement and wo stages and the plugs w ment circulated to the surf ment circulated to the surf	ian. Prior to installing the cas culate cement volumes (Attac nplicated than the sections du h casing from surface to 302 feet; and 7-inch CRA casing for oe at 13,622. The cement inc Well-Lock resin tail cement in vere landed in the float collar ace during the first stage and	ing, hment 1a-1c). le to the potential feet; 7-inch from 4,955 to luded a n both stages. and DV tool 93 sacks	\bigcap
Comm Name (Printed/Typed) ALBERTO		60970 verified by the BLM Well MIDSTREAM LP, sent to the Ho sing by JENNIFER SANCHEZ of Title CONSU	Information System bbbs n 12/20/2016 (17JAS0125SE) LTANT TO DCP MIDSTREM, I	
Signature (Electronic S			CCEPTED FOR REC	DRA //
	THIS SPACE FO	R FEDERAL OR STATE		V VII
			DEC 21 016	DALAA
Approved By Conditions of approval, if any, are attached certify that the applicant holds legal or equ which would entitle the applicant to condu	itable title to those rights in the	Title Title Title Office	BUREAU OF LAND MAN GEM CARLSBAD FIEUD OF ACE	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a c	rime for any person knowingly and		agency of the United
(Instructions on page 2)	7		REVISED ** BLM REVISE	D** K#

Additional data for EC transaction #360970 that would not fit on the form

32. Additional remarks, continued

(35 bbls) of cement circulated to the surface during the second stage. No fallback of cement was observed and the wait on cement time was 32 hours for TIH and 55 hours for running the CBL. Attachment 2 provides summary tables depicting the casing and cement for the entire well, the production casing tally, the cement (pilot) laboratory data, the cement summary job report, and photographic documentation of cement returns to surface.

Halliburton CBL tools were run with no casing pressure applied at the surface in order to prepare an Advanced Cement Evaluation log and a Peak Analysis of the CBL Waveform log. The logs required significant in-house processing in order to minimize the effects of the CRA pipe and resin-based cement to prevent corrosion associated with acid gas. A field print R-CBL was provided on-site and submitted to the BLM coordinating engineer for review and approval. The CBLs are not provided in this submittal, as the files are too large to submit on the BLM WIS.

The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 2,500 and 5,000 psi. A casing pressure test was performed above the DV tool at 1,000 psi for 30 minutes prior to drilling out the DV tool, residual cement to approximately 30 feet above the casing shoe, and running the CBL. A final CIT was successfully performed over the entire casing at 1,000 psi for 30 minutes. The well was then drilled to 10 feet below the casing shoe to perform a formation integrity test by applying 440 psi of pressure for 30 minutes with no evidence of formation breakdown. The successful results of all the pressure tests are provided in Attachment 3.

Total depth of the 6-inch borehole (14,750 feet) was reached on December 10, 2016 and open-hole geophysical logs were run and are provided in Attachments 4a-c. The complete mud log is included in Attachment 5. Sidewall cores were also taken to better evaluate the quality of injection zone and to demonstrate the absence of producible hydrocarbons. This information will be provided in a future Sundry Report.

INSTALL PRODUCTION CASING – C-103

Date Submitted:	12/14/16
Date Approved:	12/28/16

Attachments: None – NMOCD, Hobbs did not require attachments

Submit 1 Copy To Appropriate District Office <u>District 1</u> – (575) 393-6161	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 District II - (575) 748-1283	OIL CONSERVATION DIVISION	WELL API NO. 30-025-42207
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	6. State Oil & Gas Lease No. NM 0149956
SUNDRY NOTIO (DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA	ES AND REPORTS ON WELLS ALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A ATION FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name N/A
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🔲 Other: Acid Gas Injection	8. Well Number D2
2. Name of Operator DCP MIDSTREAM LP	HOBBS OCD	9. OGRID Number 025575
 Address of Operator 370 17TH STREET, SUITE 2500, DI 	ENVER, CO 80202 DEC 2 1 2016	10. Pool name or Wildcat DEVONIAN EXPL.
4. Well Location Unit Letter <u>L</u> : 1893	feet from the SouthEChildhED95	0feet from theWestline
Section 19	Township 19S Range 3	2E NMPM County LEA
	 Elevation (Show whether DR, RKB, RT, GR, etc. 3548 ft. Ground Level 	

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

NOTICE O	= IN	TENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK		PLUG AND ABANDON		REMEDIAL WORK ALTERING CASING	
TEMPORARILY ABANDON		CHANGE PLANS		COMMENCE DRILLING OPNS. P AND A	
PULL OR ALTER CASING		MULTIPLE COMPL		CASING/CEMENT JOB	
DOWNHOLE COMMINGLE					
CLOSED-LOOP SYSTEM					
OTHER:		the second second		OTHER:	
		ated accentions (Clouds)	state al	OTHER:	data

 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.

The Production casing was run on 12-1-16 in an 8 3/4-inch borehole drilled to a depth of 13,622 ft. The casing was seated 15 feet into the top of the Devonian. Prior to installing the casing, geophysical logs were run, including a caliper log to calculate cement volumes (Attachment 1a-1c).

The 7-inch production casing and cement was more complicated than the sections due to the potential for exposure to acid gas. Generally, it included 7 5/8-inch casing from surface to 302 feet; 7-inch casing from 302 to 4,955 feet and from 6,363 to 13,329 feet; and 7-inch CRA casing from 4,955 to the DV tool at 6,362 feet and from 13,329 to the float shoe at 13,622. The cement included a combination of Halliburton Tuned Light lead cement and Well-Lock resin tail cement in both stages.

The casing was cemented in two stages and the plugs were landed in the float collar and DV tool with 128 sacks (48 bbls) of cement circulated to the surface during the first stage and 93 sacks (35 bbls) of cement circulated to the surface during the second stage. No fallback of cement was observed and the wait on cement time was 32 hours for TIH and 55 hours for running the CBL. Attachment 2 provides summary tables depicting the casing and cement for the entire well, the production casing tally, the cement (pilot) laboratory data, the cement summary job report, and photographic documentation of cement returns to surface.

Halliburton CBL tools were run with no casing pressure applied at the surface in order to prepare an Advanced Cement Evaluation log and a Peak Analysis of the CBL Waveform log. The logs required significant in-house processing in order to minimize the effects of the CRA pipe and resin-based cement to prevent corrosion associated with acid gas. A field print R-CBL was provided on-site and submitted to the BLM coordinating engineer for review and approval. The CBLs are not provided in this submittal, as the files are too large to submit through e-mail.

The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 2,500 and 5,000 psi. A casing pressure test was performed above the DV tool at 1,000 psi for 30 minutes prior to drilling out the DV tool, residual cement to approximately 30 feet above the casing shoe, and running the CBL. A final CIT was successfully performed over the entire casing at 1,000 psi for 30 minutes. The well was then drilled to 10 feet below the casing shoe to perform a formation integrity test by applying 440 psi of pressure for 30 minutes with no evidence of formation breakdown. The successful results of all the pressure tests are provided in Attachment 3.

Total depth of the 6-inch borehole (14,750 feet) was reached on December 10, 2016 and open-hole geophysical logs were run and are provided in Attachments 4a-c. The complete mud log is included in Attachment 5. Sidewall cores were also taken to better evaluate the quality of injection zone and to demonstrate the absence of producible hydrocarbons. This information will be provided in a future Sundry Report.

Spud Date:	November 2, 2016	Rig Release Date:
I hereby certi	fy that the information above is tru	e and complete to the best of my knowledge and belief.
SIGNATURI	pul Snit	TITLE CONSULTANT TO DCP MIDSTREM LP DATE 12/14/2016
Type or print	name JARED R. SMITH	E-mail address: JSMITH@GEOLEX.COM PHONE: 505-842-8000
For State Us APPROVED	e Only	Petroleum Engineer DATE 12/2/16
Conditions of	Approval (if any):	

NO RECOVERABLE HYDROCARBONS

12/22/16
1/17/17
Geophysical Logs and Sidewall Core Analysis
Mud log Evaluation
Formation Fluid Evaluation

Form 3160-5 (June 2015) D I SUNDRY	OMB N	APPROVED O. 1004-0137 anuary 31, 2018				
Do not use the abandoned w		6. If Indian, Allottee o	or Tribe Name			
SUBMIT IN	TRIPLICATE - Other ins	tructions on	page 2		7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well □ Gas Well □ O	ther				8. Well Name and No. ZIA AGI D2	
2. Name of Operator DCP MIDSTREAM LP			GUTIERREZ		9. API Well No. 30-025-42207-0	00-X1
3a. Address 370 17TH STREET SUITE 2 DENVER, CO 80208 5406	500	3b. Phone No Ph: 505-84). (include area code) 12-8000		10. Field and Pool or I AGI	Exploratory Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description	1)			11. County or Parish,	State
Sec 19 T19S R32E Lot 3 189 32.644036 N Lat, 103.81114					LEA COUNTY,	NM
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE OI	F NOTICE,	REPORT, OR OTH	HER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
□ Notice of Intent	□ Acidize	🗖 Dee	pen	Product	ion (Start/Resume)	□ Water Shut-Off
	□ Alter Casing	🗖 Нус	Iraulic Fracturing	🗖 Reclam	ation	Well Integrity
Subsequent Report	Casing Repair	🗆 Nev	v Construction	🗖 Recomp	olete	🛛 Other
Final Abandonment Notice	Change Plans	🗖 Plug	g and Abandon	Tempor	arily Abandon	
	Convert to Injection	🗖 Plug	g Back	U Water I	Disposal	
13. Describe Proposed or Completed O If the proposal is to deepen directio Attach the Bond under which the w following completion of the involv testing has been completed. Final A determined that the site is ready for	nally or recomplete horizontally, ork will be performed or provide ad operations. If the operation re abandonment Notices must be fi	, give subsurface e the Bond No. o esults in a multip	locations and measure n file with BLM/BIA le completion or reco	red and true ve . Required sul mpletion in a r	ertical depths of all pertin osequent reports must be new interval, a Form 316	ent markers and zones. filed within 30 days 0-4 must be filed once
DCP Midstream is submitting AGI D #2 within the NMOCC Montoya Formations (injectio obtain this approval, DCP is hydrocarbon potential of the DCP an extensive analysis of geophysical logs, mud logs, NMOCC-approved injection a well was swabbed to remove showed no visible evidence of analyzed (Attachment C), an as soon as available. All visu	-approved injection zone win zone) consistent with the required to assess the pre approved injection zone. The f the detailed well logs for collection and analysis of size zone from 13,625? to 14,7 over 500 bbls of formation of hydrocarbons (no sheer d the rest of the reservoir	within the Dev e approved A sence or abs fo accomplish the well inclu sidewall core 50? (see Atta n fluid and 10 n or phase set fluid chemistr	onian, Wristen, F PD for this well. ence of commerc this Geolex has ding a full suite of samples retrieved chments A and E samples were co paration). TPH has y will be reported	usselman, a In order to ially-recove conducted f d from the B). In additio blected whi as already b to the BLM	rable for on, the ch oeen	
14. I hereby certify that the foregoing	is true and correct. Electronic Submission # For DCP nitted to AFMSS for proces:	361970 verifie MIDSTREAM sing by DEBO	d by the BLM Wel LP, sent to the He RAH MCKINNEY o	I Informatior obbs on 01/17/2013	n System 7 (17DLM0348SE)	
Name(Printed/Typed) ALBERT	O A GUTIERREZ		Title CONSU	LTANT TO	DCP MIDSTREM, L	P
Signature (Electronic	Submission)		Date 12/22/20	016		
	THIS SPACE FO		L OR STATE	OFFICE U	SE	
Approved By ACCEP	ED		PAUL SWA			Date 01/17/2017
Conditions of approval, if any, are attach certify that the applicant holds legal or e which would entitle the applicant to cond	quitable title to those rights in th		Office Hobbs			
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious or fraudulen	3 U.S.C. Section 1212, make it a statements or representations as	crime for any post of any post of any matter w	erson knowingly and ithin its jurisdiction.	willfully to ma	ake to any department or	agency of the United
(Instructions on page 2) ** BLM RE	/ISED ** BLM REVISE	D ** BLM R	EVISED ** BLN) ** BLM REVISE	D **

Additional data for EC transaction #361970 that would not fit on the form

32. Additional remarks, continued

lack of commercially-recoverable hydrocarbons in the NMOCC-approved injection zone. The results of this detailed analysis, which are summarized on this form and its three attachments (Attachments A, B and C) clearly demonstrate that the proposed injection zone does not contain any commercially-recoverable hydrocarbons and will serve as a suitable injection zone for the proposed injection fluid.

The injection zone has been extensively analyzed using all available data obtained during the drilling of the Zia AGI D #2 in November to December 2016. The results of these analyses clearly demonstrate that the minor indications of trace hydrocarbons detected in isolated thin portions of the proposed injection zone are not commercially-recoverable and the zones are wet with very high residual water saturations. These values range from 2 to 26 ppm TPHs. Based on the analyses detailed in the attachments to this form, DCP requests BLM concurrence that there are no commercially-recoverable hydrocarbons in the injection zone, and approval proceed with reservoir testing, and final completion of the well. DCP will conduct an extensive series of injection zone. BLM will be notified of these tests, and the test results will also be provided to the BLM following analysis by DCP and their consultants. This work will be conducted under the current BLM bond for this well, which is Bond number 105982905 already on file with the BLM.

STEP RATE TEST – 3160-5

1/10/17
1/26/17
BLM SRT Form
Pressure and Injection Rate Graph
Demonstration of No Break over Point
Schlumberger Raw Data
Preliminary Warm-Back Plots

Form 3160-5 (June 2015)	OMB NO Expires: Ja	APPROVED O. 1004-0137 anuary 31, 2018					
SUN Do not abandon	 Lease Serial No. NMLC065863 If Indian, Allottee of 	r Tribe Name					
	MIT IN TRIPLICATE - Other ins		-		7. If Unit or CA/Agree	ement, Name and/or No.	
1. Type of Well					8. Well Name and No.		
Z Oil Well ☐ Gas Well 2. Name of Operator	—	ALBERTO A			ZIA AGI D2 9. API Well No.		
DCP MIDSTREAM LP	E-Mail: aag@geo		GUTIERREZ		30-025-42207-0	0-X1	
3a. Address 370 17TH STREET SU DENVER, CO 80208 5		3b. Phone No Ph: 505-84	(include area code) 2-8000		10. Field and Pool or I AGI	Exploratory Area	
- -	e, Sec., T., R., M., or Survey Descriptio	n)			11. County or Parish,	State	
Sec 19 T19S R32E Lot 32.644036 N Lat, 103.8					LEA COUNTY,	NM	
12. CHECK T	THE APPROPRIATE BOX(ES) TO INDICA	FE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA	
TYPE OF SUBMISSIO	N		TYPE OF	FACTION			
□ Notice of Intent	□ Acidize	🗖 Deej	pen	Product	ion (Start/Resume)	□ Water Shut-Off	
Subsequent Report	□ Alter Casing	-	raulic Fracturing	□ Reclam		Well Integrity	
☐ Final Abandonment No	□ Casing Repair □ Change Plans	—	Construction and Abandon	□ Recomp	arily Abandon	Other	
	Convert to Injection	-	Plug Back Water Dis		-		
If the proposal is to deepen d Attach the Bond under which following completion of the testing has been completed. determined that the site is rea On December 29, 2016 well. The BLM Carlsba NMOCD Hobbs District injection zone between (Attachment 1) have be recorded by Halliburton	leted Operation: Clearly state all pertin lirectionally or recomplete horizontally h the work will be performed or provid involved operations. If the operation r Final Abandonment Notices must be f ady for final inspection. 6 a step rate test (SRT) was suc ad Hotline and Mr. Paul Swartz t Office was also notified as a c 13,622 and 14,750 feet was te een provided for synchronized s and Schlumberger. The botto aph included in Attachment 2.	v, give subsurface e the Bond No. or esults in a multiplied only after all processfully compound ccessfully compound were notified, a ourtesy and ele sted. The BLN surface and for	locations and measure file with BLM/BIA e completion or reco- requirements, include bleted at the DCI and elected not the ected to not obset 4-provided SRT mation pressure	red and true ver Required sul impletion in a r ing reclamation P Zia AGI D o observe. The data forms measurement	rtical depths of all pertin sequent reports must be new interval, a Form 316 n, have been completed a #2 The	ent markers and zones. filed within 30 days 0-4 must be filed once	
hole data were recorde data is included in Attac	ce and bottom hole pressure se d continuously at 5 minute inte chment 4. The injection rate fo 0 minutes at each step, as sho	rvals within eac r each step wa	ch step. The Sch s increased insta	llumberger F antaneously	Р/Т		
14. I hereby certify that the fore	Electronic Submission For DCI Committed to AFMSS for pro	P MIDSTREAM	LP, sent to the He UL SWARTZ on 0	obbs 1/26/2017 (1	7PRS0013SE)	_	
Name(Printed/Typed) AL	BERTO A GUTIERREZ		Title CONSU	ILIANI IO	DCP MIDSTREM, L	<u>.</u> P	
Signature (Ele	Signature (Electronic Submission) Date 01/10/2017						
	THIS SPACE F	OR FEDERA	L OR STATE	OFFICE U	SE		
_Approved By ACCE	PTED		(BLM Appr Title	over Not Sp	pecified)	Date 01/26/2017	
	e attached. Approval of this notice doe gal or equitable title to those rights in the to conduct operations thereon.		Office Hobbs				
Title 18 U.S.C. Section 1001 and States any false, fictitious or fra	Title 43 U.S.C. Section 1212, make it udulent statements or representations a	a crime for any pe as to any matter wi	rson knowingly and thin its jurisdiction.	willfully to ma	ake to any department or	agency of the United	
(Instructions on page 2) ** BLN	I REVISED ** BLM REVISE	D ** BLM RE	VISED ** BLN) ** BLM REVISEI		

Additional data for EC transaction #363439 that would not fit on the form

32. Additional remarks, continued

Halliburton and Geolex (Attachment 1). The synchronicity of the surface and downhole data were confirmed with the observation of the immediate rate and pressure drop at the surface and at the formation when a needle valve in the lubricator caused a 2.5 minute shutdown shortly after the initiation of step 8 (Attachment 4).

The surface pressure was 86 psig prior to pumping step 1 at 0.25 barrels per minute (bpm) using 8.35 lb/gal fresh water. Maximum surface pressures of 662 psig and 927 psig, respectively were observed in the 7th and 8th steps (4.0 and 5.0 bpm) bracketing the maximum permitted injection rate of 4.4 bpm. The temperature survey demonstrates the majority of fluids were in the upper portions (13,622 ? 13,880 feet) of the injection zone. Three additional steps, of greater injection rate, were conducted following the maximum permitted injection potential. The maximum surface pressures reached during the last two steps (steps 9 and 10) were 1,253 psig at 6.0 bpm and 1,613 psig at 7.0 bpm.

The SRT did not reach a break-over point, and the formation parting pressure was not reached during the test; even at the highest pumping rate above the maximum permitted injection rate. This is shown by the observed surface or formation pressures, and has a linear fit coefficient in excess of 0.98 (Attachment 3). The NMOCD-approved MAOP for treated acid gas is 5,028 psig at the rate of 15 MMSCFD, which at bottom-hole P/T conditions is approximately 4.4 BPM of liquid treated acid gas (TAG). The anticipated pressure required to inject this volume is estimated to be between 1,400 and 1,800 psig. A preliminary warm-back analysis shows permeable zones between approximately 13,622 ? 13,880 feet, 14,200 ? 14,400 feet, and 14,530 - 14,630 feet (Attachment 5).

This SRT fulfills the requirement of the BLM Conditions of Approval for DCP Zia AGI D #2 dated September 7, 2016 and NMOCC Order R-14207, and demonstrates the Zia AGI D #2 well can be safely operated at pressures well below the approved MAOP. DCP is not requesting an MAOP increase at this time for this well. Required continuous surface and bottom-hole pressure monitoring will assure fracture pressure is never exceeded for this well.

STEP RATE TEST – C-103

Date Submitted:1/11/17Date Approved:1/17/17Attachments:BLM SRT Form
Pressure and Injection Rate Graph
Demonstration of No Break over Point
Schlumberger Raw Data
Preliminary Warm-Back Plots

Submit 1 Copy To Appropriate District Office	State of			¢			m C-103
District I – (575) 393-6161 1625 N. French Dr., Hebrin R. 2245 District II – (575) 748-1283	OIL CONSERV				WELL API NO. 30-025-42207		
811 S. First St., Artesia, NM 88210 District III - (505) 334-6178 AN 1 7 2017 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South	St. Fran	ncis Dr.		5. Indicate Type of STATE		X
District IV – (505) 476-3460 1220 S. St. Francis Dr., Sanat ENELVE 87505	Santa Fe	e, NM 81	7505		6. State Oil & Gas NM 0149956	Lease No.	
SUNDRY NOTICE: (DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.)		PEN OR PL	UG BACK TO A		7. Lease Name or U N/A	Unit Agreeme	nt Name
1. Type of Well: Oil Well Gas	s Well 🗌 Other: Ac	id Gas In	jection	ſ	 Well Number D2 		
2. Name of Operator DCP MIDSTREAM LP					9. OGRID Number 025575	r	
 Address of Operator 370 17TH STREET, SUITE 2500, DEN 	IVER, CO 80202				10. Pool name or V DEVONIAN EX		
4. Well Location							
Unit Letter L : 1893	feet from the	South	line and	950	feet from the	West	line
Section 19	Township	198	Range	32	E NMPM	County	LEA
	 Elevation (Show wh 3548 ft. Ground Lev 		, RKB, RT, GR	R, etc.)			
12. Check App	propriate Box to In	dicate N	ature of Not	tice. F	Report or Other D	Data	
PROVIDE S.R.T. I					EQUENT REP		
	이 가는 것 같아요.	Г	REMEDIAL			ALTERING CA	
TO SANTA FE C	CD FOR	חחח				AND A	
APPROVA	AL	2	CASING/CE	MENT	JOB 🛛		

OTHER: OT

On December 29, 2016 a step rate test (SRT) was successfully completed at the DCP Zia AGI D #2 well. The BLM Carlsbad Hotline and Mr. Paul Swartz (BLM) were notified, and elected not to observe. The NMOCD Hobbs District Office was also notified and elected to not observe. The injection zone between 13,622 and 14,750 feet was tested. The BLM-provided SRT data forms (Attachment 1) have been provided for synchronized surface and formation pressure measurements recorded by Halliburton and Schlumberger. The bottom-hole pressure and surface pressures are overlain on a single graph included in Attachment 2.

The timing of the surface and bottom hole pressure sensors were synchronized, and all of the bottom hole data were recorded continuously at 5 minute intervals within each step. The injection rate for each step was increased instantaneously and held constant for 30 minutes at each step, as shown in the surface injection rates recorded by Halliburton and Geolex (Attachment 1). The synchronicity of the surface and downhole data were confirmed with the observation of the immediate rate and pressure drop at the surface and at the formation when a needle valve in the lubricator caused a 2.5 minute shutdown shortly after the initiation of step 8 (Attachment 4).

The surface pressure was 86 psig prior to pumping step 1 at 0.25 barrels per minute (bpm) using 8.35 lb/gal fresh water. Maximum surface pressures of 662 psig and 927 psig, respectively were observed in the 7th and 8th steps (4.0 and 5.0 bpm) bracketing the maximum permitted injection rate of 4.4 bpm. The temperature survey demonstrates the majority of fluids were in the upper portions (13,622 - 13,880 feet) of the injection zone. Three additional steps, of greater injection rate, were conducted following the maximum permitted injection rate of 4.3 bpm. These additional steps were used to help evaluate reservoir injection potential. The maximum surface pressures reached during the last two steps (steps 9 and 10) were 1,253 psig at 6.0 bpm and 1,613 psig at 7.0 bpm.

The SRT did not reach a break-over point, and the formation parting pressure was not reached during the test; even at the highest pumping rate above the maximum permitted injection rate. This is shown by the observed surface or formation pressures, and has a linear fit coefficient in excess of 0.98 (Attachment 3). The NMOCD-approved MAOP for treated acid

0

gas is 5,028 psig at the rate of 15 MMSCFD, which at bottom-hole P/T conditions is approximately 4.4 BPM of liquid treated acid gas (TAG). The anticipated pressure required to inject this volume is estimated to be between 1,400 and 1,800 psig. A preliminary warm-back analysis shows permeable zones between approximately 13,622 - 13,880 feet, 14,200 - 14,400 feet, and 14,530 - 14,630 feet (Attachment 5).

This SRT fulfills the requirement of the BLM Conditions of Approval for DCP Zia AGI D #2 dated September 7, 2016 and NMOCC Order R-14207, and demonstrates the Zia AGI D #2 well can be safely operated at pressures well below the approved MAOP. DCP is not requesting an MAOP increase at this time for this well. NMOCC required continuous surface and bottom-hole pressure monitoring will assure fracture pressure is never exceeded for this well.

Spud Date:	November 2, 2016	Rig Release Date:		
I hereby certi	fy that the information above is true an	d complete to the best o	of my knowledge and belief.	
SIGNATUR	- Jan mill	TITLE_CONSU	LTANT TO DCP MIDSTREM	LPDATE01/11/2017
Type or print For State Us		E-mail address:	JSMITH@GEOLEX.COM_	PHONE: <u>505-842-8000</u>
APPROVED	BY:			DATE
Conditions o	f Approval (if any):	Cepted for Record	0000 0000 17/2017	

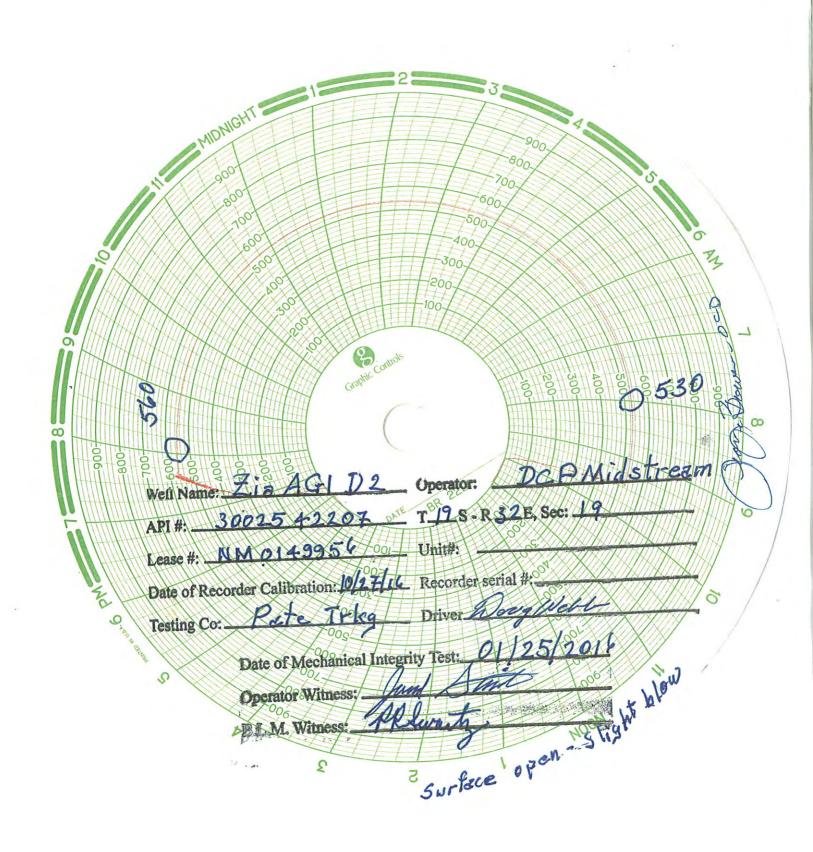
MECHANICAL INTEGRITY TEST

 Date Submitted:
 1/25/17

 Date Approved:
 1/25/17

Attachments: MIT Chart

Definition (-1675) 748-1231 Barter, 114: 7463, 344-8430 Barter, 114: 7463, 744-8430 Barter, 114: 7464, 744, 744, 744, 744, 744, 744, 744	Suomit 1 Copy Office District I – (57	y 10 Appropriate District 75) 393-6161		ate of New I	Mex1co atural Resources		Form C-10 Revised July 18, 201
811 S. Farst, A.racia, NM 8210 DIL CONSERVATION DIVISION DOMENDER AL, A.racia, NM 8210 1120 SO utb. S. Farneris Dr. Santa Fe, NM 87505 1220 S. S. Francis D., Santa Fe, NM 8790 SURDRY NOTICES AND REPORTS ON WELLS SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROFOSALS TO DAULL OR TO DEEPEN OR FLUG BACK TO A DIFFERENT RESERVOL. USE 74PL/ALCATON FOR PERPINT (FORM C-10) FOR SUCH PERPENDENT RESERVOL. USE 74PL/ALCATON FOR PERPINT (FORM C-10) FOR SUCH PERPENDENT RESERVOL. USE 74PL/ALCATON FOR PERPINT (FORM C-10) FOR SUCH PERPENDENT RESERVOL. USE 74PL/ALCATON FOR PERPINT (FORM C-10) FOR SUCH PERPENDENT RESERVOL. USE 74PL/ALCATON FOR PERPEND R FLUG BACK TO A DEVORTANT (FORM C-10) FOR SUCH PERPENDENT RESERVOL. USE 74PL/ALCATON FOR PERPEND R 701 THE STREET, SUTTE 2500, DENVER, CO 80202 9. OGRID Number D22 2. Name of Operator JO 111. Elevation (<i>Show Welcher DR, RKB, RT, GR, etc.</i>) 11. Elevation (<i>Show Welcher DR, RKB, RT, GR, etc.</i>) 13543 ft. Ground Level 4. Well Location 11. Elevation (Show Welcher DR, RKB, RT, GR, etc.) 3543 ft. Ground Level County LEA OCOMPENCE CONDUCT CE 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK A TERING CASING I COMMENCE CONDUCT CE SUBSEQUENT REPORT OF: SUBSEQUENT REPORT OF: COMMENCE CONDUCT CE 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent datas, including estimated of stating any proposed work), SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbord diagram of proposed completion or recompletion. 14. Initially the stari	1625 N. Frenc	h Dr., Hobbs, NM 88240				WELL API NO.	
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For State Use Only	SIGNATURE	Jund	mite		ONSULTANT TO E	OCP MIDSTREM LP	DATE0 <u>1/25/20</u>
and a start of the start of			OR. SMITH	_ E-mail add	ress: JSMITH@	GEOLEX.COM PH	ONE: 505-842-800
		e Only					



FINAL COMPLETION (INCLUDING MECHANICAL INTEGRITY TEST)

Date Submitted:	1/26/17
Date Approved:	2/6/17

Attachments:

MIT Chart Tubing and Equipment Tubing Tally Final Well Schematic

Form 3160-5 (June 2015)	DE BI	OMB N	APPROVED O. 1004-0137 muary 31, 2018				
Do n	UNDRY ot use thi	 Lease Serial No. NMLC065863 If Indian, Allottee of 	r Tribe Name				
		II. Use form 3160-3 (AP		broposais.			
SU	IBMIT IN T	TRIPLICATE - Other ins	tructions on	page 2		7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well ☐ Gas W	Vell 🔲 Oth	er				8. Well Name and No. ZIA AGI D2	
2. Name of Operator DCP MIDSTREAM I	_P	Contact: E-Mail: aag@geol		GUTIERREZ		 API Well No. 30-025-42207-0 	0-X1
3a. Address 370 17TH STREET DENVER, CO 8020		00	3b. Phone No Ph: 505-84	o. (include area code) 42-8000	•	10. Field and Pool or I AGI	Exploratory Area
		., R., M., or Survey Description)			11. County or Parish,	State
Sec 19 T19S R32E 32.644036 N Lat, 10						LEA COUNTY,	NM
12. CHECH	K THE AF	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISS	SION			TYPE OF	F ACTION		
□ Notice of Intent		□ Acidize	🗖 Dee	epen	Product	ion (Start/Resume)	□ Water Shut-Off
Subsequent Report		□ Alter Casing	-	Iraulic Fracturing	🗖 Reclam		U Well Integrity
		Casing Repair		v Construction	□ Recom		Other
Final Abandonment	t Notice	 Change Plans Convert to Injection 		g and Abandon		-	
Attach the Bond under w following completion of testing has been complete determined that the site is This notice includes the mechanical integ	hich the wor the involved ed. Final Ab s ready for fi informatic grity test (f	on concerning the installa MIT) results.	the Bond No. o sults in a multip led only after all tion of the pe	n file with BLM/BIA le completion or recc requirements, includ rmanent packer,	 Required sub ompletion in a bing reclamation tubing and 	bsequent reports must be new interval, a Form 316	filed within 30 days 0-4 must be filed once
Halliburton Pressure nickel, corrosion res the P-T gauge and t	e-Tempera istant allov he surface	nanent packer is set at 1: Iture (P-T) gauge, located y tubing and 411 joints of 2. The Halliburton Subsur and equipment diagram	d at a depth o carbon-steel face Safety \	f 13,526 ft. Nine tubing are prese /alve is located a	joints of ent between t a depth of	277	
On January 22, 201 with 500 bbls of red-	7 fluid in th dyed dies	ne 3.5-inch injection tubin el mixed with 1% (5 bbls)	ng and 7-inch Baker CRO	casing annulus v 381 corrosion inł	was displace hibitor prior	ed to	
14. I hereby certify that the	0 0	true and correct. Electronic Submission # For DCP mmitted to AFMSS for pro	365083 verifie MIDSTREAM cessing by PA	d by the BLM Wel LP, sent to the H UL SWARTZ on 0	II Information obbs 02/06/2017 (1	n System 7PRS0014SE)	
Name(Printed/Typed)						DCP MIDSTREM, L	Р
Signature	(Electronic S	Submission)		Date 01/26/2	017		
		THIS SPACE FO		AL OR STATE	OFFICE U	SE	
Approved By ACC	EPT	ED		PAUL SW			Date 02/06/2017
	s legal or equ	d. Approval of this notice does itable title to those rights in the ict operations thereon.		Office Hobbs			
		U.S.C. Section 1212, make it a statements or representations as				ake to any department or	agency of the United
(Instructions on page 2) ** B		ISED ** BLM REVISE	D ** BLM R	EVISED ** BLN) ** BLM REVISE	D **

Additional data for EC transaction #365083 that would not fit on the form

32. Additional remarks, continued

landing the tubing. The Baker CRO 381 corrosion inhibitor has biocide and oxygen scavenging properties. The Wellhead/Tree adapter flange and tie in control fitting components were installed and pressure-tested to 5,000 psi for 15 minutes.

On January 25, 2017, an MIT was successfully performed and witnessed by BLM and NMOCD representatives (attached). Prior to starting the MIT, the chart recorder calibration papers were inspected and approved. Also, the Section A, slip weld (braden head) and tubing pressure were opened and bleed to 0 psi. Pressure had built-up in the braden head during the cement curing process, and no fluids were expelled from this space; which was held open during the MIT. The MIT procedure was as follows:

1. Initially the starting injection pressure and the annular space pressure

between casing and tubing was 280 psig

2.Bleed pressure to zero psig

3.Placed chart on annular space and began recording annular space pressure.

4. Slowly raised annular pressure by introducing diesel to the annulus to

bring pressure to 560 psig.

5. When annulus pressure reached 560 psig closed valves to pumping truck and

recorded annular space pressure for 30 minutes. 6.The DCP Zia AGI D #2 is not yet in service so there is no injection

6. The DCP Zia AGI D #2 is not yet in service so there is no injection pressure on the tubing.

7.After 30 minutes bled off annular fluid to reduce observed pressure to

zero psig.

8. Stopped recording TEST COMPLETE.

9.Restored annular pressure to normal psig.

This 3160-5 form is the final submittal for the Zia AGI D #2. The well installations have been successfully completed and tested pursuant to all the requirements of the NMOCC Order R-13809 and BLMs Conditions of Approval. The H2S contingency plan has also been approved and the well can be put into service upon completion of the surface facility installations, which is expected in February of 2017.

FINAL COMPLETION

Date Submitted:	1/27/17
Date Approved:	2/1/17 (Record Only)
Attachments:	Tubing and Equipment
	Tubing Tally
	Final Well Schematic
	All Geophysical logs were mailed to NMOCD, Hobbs

Revised July 18, 2013 NO. 07	
Type of Lease	
& Gas Lease No. 7	
ume or Unit Agreement Name	
mber	
Number	
10. Pool name or Wildcat DEVONIAN EXPL.	
n the <u>West</u> line	
County LEA	
Other Data REPORT OF: ALTERING CASING P AND A	
nt-up	
nt dates, including estimated date tach wellbore diagram of	
tiner	

The Halliburton permanent packer is set at 13,535 ft. Just above the packer is a Halliburton Pressure-Temperature (P-T) gauge, located at a depth of 13,526 ft. Nine joints of nickel, corrosion resistant tubing and 411 joints of carbon steel tubing are present between the P-T gauge and the surface. A Halliburton Subsurface Safety Valve (SSSV) is located at a depth of 277 ft. A pipe tally, detailed tubing and equipment diagram, and as-built well schematic are attached.

permanent packer and tubing. This data has also been provided to the BLM along with the MIT results. The successful MIT was witnessed by an

On January 22, 2017 fluid in the 3.5-inch injection tubing and 7-inch casing annulus was displaced with 500 bbls of red-dyed diesel mixed with 1% (5 bbls) Baker CRO 381 corrosion inhibitor prior to landing the tubing. The Baker CRO 381 corrosion inhibitor has biocide and oxygen scavenging properties. The Wellhead/Tree adapter flange and tie in control fitting components were installed and pressure-tested to 5,000 psi for 15 minutes. On January 25, 2017, an MIT was successfully performed and witnessed by NMOCD and BLM representatives. The results of the MIT were provided on a separate C-103 form following the test.

This C-103 form is the final C-103 for the Zia AGI D #2. The well installations have been successfully completed and tested pursuant to all the requirements of the NMOCC Order R-13809. The H₂S contingency plan has also been approved and the well can be put into service upon completion of the surface facility installations, which is expected in February of 2017.

Spud Date:

November 2, 2016

NMOCD representative, and has already been submitted and approved by the NMOCD.

Rig Release Date:

December 10, 2016

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

TITLE: CONSULTANT TO DCP MIDSTREM LP DATE: 01/27/2017 SIGNATURE Type or print name JARED R. SMITH E-mail address: JSMITH@GEOLEX.COM PHONE: 505-842-8000 For State Use Only

APPROVED BY: _____ Conditions of Approval (if any): Accepted for Record Only

DATE

Maraon 2/1/2017

NOTICE TO OPERATORS

Date Submitted:	1/30/17
Date Approved:	2/6/17
Attachments:	List of Operators within 1 mile of Zia AGI D #2 13 Notice letters Sent to the Operators within 1 Mile ROE Map Certified Mail Receipts and USPS Purchase Receipt

Form 3160-5 (June 2015) DE B SUNDRY Do not use the	FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMLC065863 6. If Indian, Allottee or Tribe Name 7. If Unit or CA/Agreement, Name and/or No.								
abandoned we									
	9 Well Name and Na								
1. Type of Well ☐ Gas Well ☐ Oth		8. Well Name and No. ZIA AGI D2							
2. Name of Operator DCP MIDSTREAM LP	9. API Well No. 30-025-42207-00-X1								
3a. Address 370 17TH STREET SUITE 25 DENVER, CO 80208 5406	00	. (include area code) 2-8000		10. Field and Pool or I AGI	Exploratory Area				
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description				11. County or Parish,	State			
Sec 19 T19S R32E Lot 3 1893 32.644036 N Lat, 103.811145					LEA COUNTY, NM				
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA			
TYPE OF SUBMISSION		TYPE OF	FACTION						
☑ Notice of Intent	☐ Acidize ☐ Alter Casing	□ Dee	pen raulic Fracturing	□ Product □ Reclam	ion (Start/Resume) ation	□ Water Shut-Off □ Well Integrity			
Subsequent Report	Casing Repair	-	Construction	□ Recom		⊠ Other			
Final Abandonment Notice	Change Plans	🗖 Plug	and Abandon	Tempor	arily Abandon				
	Convert to Injection	🗖 Plug	Back	🗖 Water I	Disposal				
13. Describe Proposed or Completed Op If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f In compliance with the approv radius for the approximate con the 13 letters sent to the opera possible case scenarios for H certified mail receipts and USI 14. I hereby certify that the foregoing is	ally or recomplete horizontally, rk will be performed or provide l operations. If the operation re bandonment Notices must be fil inal inspection. red APD, attached is a list mmencement date of inject ators and map, that was in 2S exposure areas. These PS purchase receipt are a	give subsurface the Bond No. or sults in a multipl ed only after all t of operators ction at the Zi ncluded with e letters were attached.	locations and measu file with BLM/BIA e completion or recor requirements, includ notified within a a AGI D #2 well. each letter, show sent certified ma	red and true ve Required sui impletion in a ri- ing reclamation 1 mile Attached ari- ring the wors- ail, and the	rtical depths of all pertin bsequent reports must be new interval, a Form 316 n, have been completed a re st	ent markers and zones. filed within 30 days 0-4 must be filed once			
	obbs 2/06/2017 (1	7PRS0015SE)	D						
Nano(1 nucu 1 ypea) ALBERTO	D A GUTIERREZ	Title CONSULTANT TO DCP MIDSTREM, LP							
Signature (Electronic S	Submission)	Date 01/30/2017							
	THIS SPACE FO		L OR STATE	OFFICE U	SE				
Approved By ACCEPT	ED		PAUL SWA			Date 02/06/2017			
Conditions of approval, if any, are attache certify that the applicant holds legal or equivient would entitle the applicant to condu-	uitable title to those rights in the	not warrant or e subject lease	Office Hobbs						
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent				willfully to m	ake to any department or	agency of the United			
(Instructions on page 2) ** BLM REV									

BLM REVISED BLM REVISED BLM REVISED BLM REVISED BLM REVISED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Date Submitted:	1/30/17
Date Approved:	Pending
Attachments:	Final Well Directional Survey Core Report Complete Well Schematic All Geophysical logs were mailed to BLM, Carlsbad

Form 3160-4 UNITED STATES (August 2007) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT										FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010									
WELL COMPLETION OR RECOMPLETION REPORT AND LOG											5. Lease Serial No. NMNM0149956								
Ia. Type of Well Oil Well Gas Well Dry Other: INJ										6. If Indian, Allottee or Tribe Name									
b. Type of Completion 🛛 New Well 🗋 Work Over 🗋 Deepen 🗋 Plug Back 🗋 Diff. Resvr. Other											esvr.	7. Unit or CA Agreement Name and No.							
2. Name of DCP M	Operator IDSTREAM	. LP	E	-Mail: a	ag@	Contact: geolex.c	ALBER	TO A G	GUTI	ERREZ	-			 Lease Name and Well No. ZIA AGI D 2 					
DCP MIDSTREAM, LP E-Mail: aag@geolex.com 3. Address 370 17TH STREET SUITE 2500 DENVER, CO 80808 3a. Phone No. (include area code) Ph: 505-842-8000											9. API Well No. 30-025-42207								
4. Location	of Well (Re	port locati	ion clearly ar	nd in acc	ordan	ce with I	Federal re	quireme	ents)'	*				10. Field and Pool, or Exploratory DEVONIAN EXPL.					
At surfa	ce NWSV	V 1893FS	SL 950FWL	32.643	951 N	Lat, 10	3.81111	6 W Lo	on					11. Sec., T., R., M., or Block and Survey or Area Sec 19 T19S R32E Mer NMP					
At top p	rod interval i	reported b	elow NW	SW 189	3FSL	950FW	/L 32.64	3951 N	I Lat,	103.81	1116 \	N Lo	n		r Area Se County or H		_	3. State	
At total	-	/SW 1893	BFSL 950FV				103.811							L	EA			NM	
14. Date Sp 11/02/2	oudded 017			ate T.D. /10/201		ned) & A	Complet 1 2017	ed Ready	to Pr	od.	17. E	Elevations 35	(DF, K 48 GL	B, RT	', GL)*	
18. Total D	epth:	MD TVD	14750 14750		19. I	Plug Bac	k T.D.:	MD TV					20. Dep	oth Brid	dge Plug S	et:	MD TVD		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) RES, SONIC, LATER, NEUT/DEN, GAMMA, MUD, BOREHOLE 22. Was well co Was DST ru Directional S										ST run?		□ No ⊠ No □ No	🗆 Ye	s (Sut	omit analysis) omit analysis) omit analysis))			
23. Casing an	d Liner Reco	ord (Repa	ort all strings	set in w	ell)									-					
Hole Size	Hole Size Size/Grade Wt.		Wt. (#/ft.)	To (MI		Bottor (MD)	l v	e Cemei Depth							Cement	Тор*	Amount Pulled		
8.750		25 P110	33.7		0		306		6346			190		548		0	-		221
<u>26.000</u> 17.500		.000 J55 .375 J55	106.5 61.0		0 820			826 2555		1425			297		0	-		487 428	
12.250		625 N80	40.0		0		555 596		608			1950 1450		584 442		0			<u>420</u> 251
8.750		00 P110	29.0		306		955		346			1190		548	-		-		221
8.750		00 V110	32.0	4	1955	63	346	63	346		1	190		548		0			221
24. Tubing					~.								~.						
Size 3.500	Depth Set (N	4D) P 3518	acker Depth	(MD) 13535	Siz	e D	epth Set	(MD)	Packer Depth (MD)			Size	Depth Set (MD)			Pack	er Depth (MI	D)	
25. Producii		5516		15555				erforation Record											
Fo	ormation		Тор					Perfora	ated I	nterval			Size	Ν	lo. Holes		Per	rf. Status	
A)	DEVO	NIAN	1	13625 13797															
B)				13797 13972															
<u>C)</u>	FUSSEL			3972		14371						_							
D) 27. Acid, Fr	MON acture, Treat		nent Squeeze	4371 e, Etc.															
	Depth Interva			,					Am	nount and	d Type	of Ma	aterial						
	1362	2 TO 14	750 40,000	GALS O	F DOL	JBLE INH	IIBITING I	NE FE 2	20% H	HCL ACII	D PLUS	GRA	DED RC	OCK SA	LT(4,000 L	_BS) IN	GELL	ED BRINE	
28. Producti	on - Interval	А																	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Gas MCF	Water BBL		Oil Gravity Corr. API			Gas Gravity		Production Method					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Water BBL		Gas:Oil Ratio		V	Well Status							
28a. Produc	tion - Interva	<u>լ</u> մ B		I				I											
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Jas ACF	Water BBL		Oil Gravity Corr. API			Gas Gravity		Producti	on Method				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Jas ACF	Water BBL		Gas:Oil Ratio		v	Well Status							
(See Instructi		l ces for add	ditional data	on reve	rse sia	le)													

(See instructions and spaces for additional add on reverse side)	
ELECTRONIC SUBMISSION #365237 VERIFIED BY THE BLM WELL INFORMATION SYSTEM	
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED) **

28b. Prod	luction - Interv	val C										
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Oil Gravity Corr. API	Ga Gra	is avity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF		Gas:Oil Ratio	We	ell Status			
28c. Prod	luction - Interv	/al D			1	1						
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Oil Gravity Corr. API	Ga Gra	is avity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF		Gas:Oil Ratio	We	ell Status			
	sition of Gas(NOWN	Sold, used	l for fuel, vent	ed, etc.)	1	_11						
30. Summ	nary of Porous	s Zones (I	nclude Aquife	rs):					31. For	nation (Log) Mark	cers	
tests,						intervals and all , flowing and sh		3				
	Formation		Тор	Bottom		Descriptions,	, Contents, etc.			Name		Top Meas. Depth
	ional remarks								SAL CAI DEI DE ^V WR FUS	CKUM LT TOP PITAN REEF LAWARE VONIAN ISTEN SSELMAN NTOYA		270 882 2760 4782 13625 13797 13972 14371
The f Hole 8.75	ollowing is th Size Casing 7 2	ie remair Size Gra 9	ning production ide Wt. (#/ft.) 6363 13	on casing r Top (MD) 3,329 63	ecord: Bottom (N 46	n casing record /ID) Stage Cerr						
8.75 No. c	7 3. of Sks. Slurry		13,329 1		346 Pulled							
	e enclosed atta	•	,									
1. El	ectrical/Mecha	anical Log	gs (1 full set re	eq'd.)		2. Geologic Re	eport		3. DST Rep	oort	4. Direction	al Survey
5. Su	ndry Notice fo	or pluggin	g and cement	verification		6. Core Analys	sis		7 Other:			
34. I here	by certify that	the foreg	oing and attac	hed informa	tion is con	nplete and correct	et as determine	d from a	all available	records (see attach	ned instructio	ns):
			Elect			5237 Verified by IIDSTREAM, I				stem.		
Name	e(please print)	ALBER	TO A GUTIE	RREZ			Title C	ONSUL	TANT TO	DCP MIDSTREM	I, LP	
Signa	ture	(Electro	nic Submissi	on)			Date 01	1/30/20	17			
Title 18 U of the Un	J.S.C. Section ited States any	1001 and y false, fic	Title 43 U.S. titious or frad	C. Section 1 ulent statem	212, make ents or rep	it a crime for an resentations as to	y person know o any matter w	vingly ar vithin its	nd willfully	to make to any dep	partment or ag	gency
					r		•		-			

Additional data for transaction #365237 that would not fit on the form

32. Additional remarks, continued

1190	548	0	221
1190	548	0	221

The Zia AGI D #2 will be used for acid gas injection, therefore many of the questions and data requests herein are not applicable. All of the open-hole and cased-hole electric logs were submitted with the appropriate Form 3160-5. Hard copies will be mailed to the BLMs Carlsbad office. The final well directional survey, core report, and completed well schematic are attached.

APPENDIX F

NOTICE LETTERS TO PRODUCERS WITHIN ONE MILE

LIST OF OPERATORS WITHIN 1 MILE OF ZIA AGI D #2

OPERATORS WITHIN 1 MILE RADIUS OF DCP MIDSTREAM, LP ZIA AGI D #2 INJECTION WELL SURFACE: 1893 FSL, 950 FWL, SECTION 19, T19S, R32E

- Chisos, Ltd.
 670 Dona Ana Rd., SW Deming, NM 88030
- Cimarex Energy Company of Colorado 1700 Lincoln St., Ste. 3700 Denver, CO 80203
- COG Operating, LLC One Concho Center 600 W. Illinois Ave. Midland, TX 79701
- 4) Concho Oil and Gas, LLC One Concho Center
 600 W. Illinois Ave. Midland, TX 79701
- 5) DCP Midstream, LP 370 17th St., Ste. 2500 Denver, CO 80202
- Devon Energy Production, LP 333 West Sheridan Ave. Oklahoma City, OK 73102
- Lynx Petroleum Consultants, Inc. 3325 N. Enterprise Dr. Hobbs, NM 88240
- OXY, USA, Inc. P.O. Box 4294 Houston, TX 77210
- 9) OXY Y-1 P.O. Box 27570 Houston, TX 77227
- 10) Remnant Oil Operating, LLC P.O. Box 509 Perryton, TX 79070

- 11) Shackelford Oil Company P.O. Box 10665 Midland, TX 79702
- 12) Tom R. Cone 1304 Broadway Pl. Hobbs, NM 88240
- 13) Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210

13 NOTICE LETTERS SENT TO THE OPERATORS WITHIN 1 MILE OF ZIA AGI D #2



January 30, 2017

Chisos, Ltd. 670 Dona Ana Rd., SW Deming, NM 88030

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

To Whom It May Concern,

The purpose of this letter is to inform you that on or about February 7, 2017, DCP Midstream LP will commence injection operations at the Zia AGI D #2 Well located at DCP's Zia II Gas plant pursuant to NMOCC Order R-14207, and BLM approval of the well completion. In compliance with the Conditions of Approval of BLMs APD, notice of initiation of operations and a map of the worst case scenario H2S radius of exposure must be provided to all operators of existing wells within a 1 mile radius of the well.

Enclosed please find a map which shows the location of the Zia II Gas Plant, and the well and depicts the worst case 500 ppm and 100 ppm Radii of Exposure for the Plant and the AGI well. The map is taken directly from the Zia II Gas Plant H2S Contingency Plan which was approved by the NMOCD in September 2016.

If you have any questions, please contact me at the address below or at 505-842-8000.

Sincerely, Geolex, Inc.

Alberto A. Gutierrex, RG President Consultant to DCP Midstream LP

cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

•



January 30, 2017

Cimarex Energy Company of Colorado 1700 Lincoln St., Ste. 3700 Denver, CO 80203

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

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If you have any questions, please contact me at the address below or at 505-842-8000.

Sincerely, Geolex, Inc.

Alberto A. Gutierrez, RG President Consultant to DCP Midstream LP

cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

.



January 30, 2017

Concho Oil and Gas, LLC One Concho Center 600 W. Illinois Ave. Midland, TX 79701

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

To Whom It May Concern,

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Sincerely, Geolex, Inc.

Alberto A. Gutierrez, RG President Consultant to DCP Midstream LP

cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure



January 30, 2017

DCP Midstream, LP 370 17th St., Ste. 2500 Denver, CO 80202

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

To Whom It May Concern,

The purpose of this letter is to inform you that on or about February 7, 2017, DCP Midstream LP will commence injection operations at the Zia AGI D #2 Well located at DCP's Zia II Gas plant pursuant to NMOCC Order R-14207, and BLM approval of the well completion. In compliance with the Conditions of Approval of BLMs APD, notice of initiation of operations and a map of the worst case scenario H2S radius of exposure must be provided to all operators of existing wells within a 1 mile radius of the well.

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If you have any questions, please contact me at the address below or at 505-842-8000.

Sincerely, Geolex, Inc.

Alberto A. Gutierrez, RG President Consultant to DCP Midstream LP

cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure



January 30, 2017

Devon Energy Production, LP 333 West Sheridan Ave. Oklahoma City, OK 73102

Via First Class Mail Return Receipt Requested

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cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

1.1



January 30, 2017

OXY Y-1 P.O. Box 27570 Houston, TX 77227

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

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 cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver
 Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

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January 30, 2017

Lynx Petroleum Consultants, Inc. 3325 N. Enterprise Dr. Hobbs, NM 88240

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

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cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

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January 30, 2017

Shackelford Oil Company P.O. Box 10665 Midland, TX 79702

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

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cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

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January 30, 2017

Tom R. Cone 1304 Broadway Pl. Hobbs, NM 88240

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

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cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

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January 30, 2017

OXY, USA, Inc. P.O. Box 4294 Houston, TX 77210

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Enclosure

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January 30, 2017

Yates Petroleum 105 S. 4th Street Artesia, NM 88210

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION -- DCP MIDSTREAM LP ZIA AGI D#2 WELL

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 cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver
 Paul Tourangeau, DCP Denver
 Tony Canfield, DCP Midland

Enclosure

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January 30, 2017

Remnant Oil Operating, LLC P.O. Box 509 Perryton, TX 79070

Via First Class Mail Return Receipt Requested

RE: NOTIFICATION OF INTITIAION OF OPERATION – DCP MIDSTREAM LP ZIA AGI D#2 WELL

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cc: Krueng, Teungku Muchlis, BLM District Office, Carlsbad, NM Chris Root, DCP Denver Paul Tourangeau, DCP Denver Tony Canfield, DCP Midland

Enclosure

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January 30, 2017

COG Operating, LLC One Concho Center 600 W. Illinois Ave. Midland, TX 79701

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Enclosure

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500 PPM AND 100 PPM RADIUS OF EXPOSURE MAP, WITH ROADBLOCKS, EMERGENCY ASSEMBLY AREAS, AND EVACUATION ROUTS.

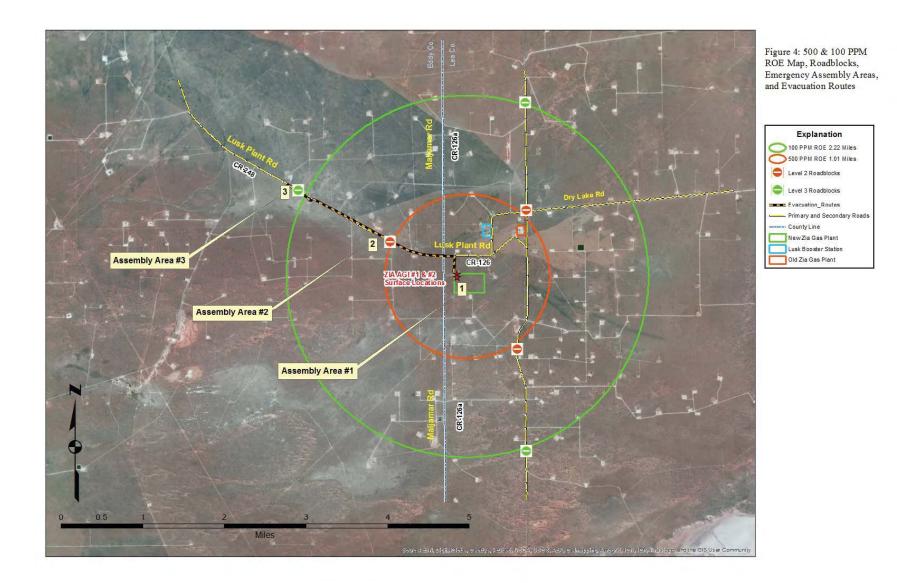


Figure 4: 500 and 100 ppm ROE Map, Roadblocks, Emergency Assembly Areas and Evacuation Routes

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Shackelford Oil

Box 1066

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Midlund, TX 79702

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\$2.75 Return 1 Receipt (@@USPS Return Receipt #) (9590940223706249002599) First-Class \$0.49 1 Mail Letter (Domestic) (MIDLAND, TX 79702) (Weight:0 Lb 0.50 0z) (Expected Delivery Day) (Thursday 02/02/2017) \$3.35 Certified 1 (@@USPS Certified Mail #) (7016197000082507494) Return \$2.75 -1 Receipt (@@USPS Return Receipt #) (9590940223706249002582) First-Class \$0,49 1 Mail Letter (Domestic) (HOBBS, NM 88240) (Weight:0 Lb 0.50 0z) (Expected Delivery Day) (Thursday 02/02/2017) Certified \$3.35 1 (@@USPS Certified Mail #) (70161970000082507500) \$2.75 Return 1 Receipt (@@USPS Return Receipt #) (9590940223706249002575) First-Class \$0.49 1 Mail Letter (Domestic) (ARTESIA, NM 88210) (Weight:O Lb 0.40 Oz) (Expected Delivery Day) (Thursday 02/02/2017) Certified \$3.35 (@@USPS Certified Mail #) (70161970000082507517) Return \$2.75 1 Receipt (@@USPS Return Receipt #) (9590940223706249002568) Total \$85.67 Person1/Bus Check \$85.67 BRIGHTEN SOMEONE'S MAILBOX. Greeting cards available for purchase at select Post Offices.

APPENDIX G

Operation Design Specifications for the Subsurface Safety Valve, Halliburton BWD Permanent Packer, P/T Gauge, and AGI System Training and Maintenance Operational Design Specifications for the Subsurface Safety Valve, P/T Gauge and Halliburton BWD Permanent Packer

HALLIBURTON

DCP Midstream

Zia AGI #2 Lea County, New Mexico

Design of Service Installation Procedures

Revision: 1 Date: 12/13/16

Prepared by: Casey Lehmann Phone: 432-257-8525

Address: 6155 W. Murphy St. Odessa, TX 79765

HALLIBURTON

Design Verification

Role	Name	Signature	Date
Prepared by:	Casey Lehmann		
Business Development Reviewed	Lynn Talley		
by:	Andrew Gammon		
Engineering Reviewed by:	Travis Marshall		
Halliburton Approval:	Gerald Stutes		
Customer Approval:			

Revision Log

Revision	Revision Date	Revised By	Comments
1	12/13/2016	CL	Initial Copy
2	12/17/2016	CL	Updated depths

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Table of Contents

De	sign Ve	erification	2
Re	vision l	Log	2
Do	cument	Distribution List	2
Cu	stomer	/ Halliburton / 3 rd Party Interfaces	3
1.	Proje	ct Team	5
2.	Safet	у	5
,	2.1.	Stop Work Authority	5
,	2.2.	Safety – General	5
3.	Mana	agement of Change	6
4.	Proje	ct Overview & Objectives	6
5.	Well	Information	7
	5.1.	Well Schematic(s)	8
6.	Calcu	ılations	10
7.	Insta	Ilation Procedures	10
,	7.1.	Pre-Job Preparation – Completions Tools	10
,	7.2.	Installation Job Procedure	11
8.	Testi	ng and Validation	16
:	8.1.	Pre-Test Preparation	16
]	Pressur	e test using HMS standards	16
1	8.2.	Test Procedures	16
]	N/A	16	
9.	Cont	ingency	16
10.	Risk	Assessment	16
	10.1.	Risk Assessment Table	16
	10.6.	Risk Rating Matrix	17
11.	Appe	ndix	18
	11.1.	Equipment Specifications	18
	11.1.1.	Packer	
		SSSV	

1. Project Team

1.1. HCT field Installation team

- HCT Specialists (Packer, Seal Assembly, SSSV)
- HCT Engineers (ROC Gauge, TEC)

2. Safety

2.1. Stop Work Authority

If an operation is observed or believed to put safety and/or service quality in jeopardy, it is the duty and obligation of all personnel involved to stop the operation, so that all safety and/or service quality concerns can be addressed.

DID YOU KNOW SOMETIMES THE MOST IMPORTANT WORK YOU CAN DO IS TO STOP WORKING.

If you're working and you see a process that is not being followed correctly, or if you notice at-risk behavior going on, take the initiative and call a quick time-out. Then confer with your workmates to make sure everyone knows the safe way to continue.

Executing Stop Work Authority to right safety wrongs and catch potential unsafe action before it actually happens is not only responsible, it's also effective. In fact, in the oil and gas industry, it's been one of the most successful approaches to safety in the last decade.

Empower the people around you. Encourage them to watch for unsafe conditions or processes, and when it's necessary, stop the job until it can be done safely.

At Halliburton, solving customer challenges is second only to keeping everyone safe and healthy. You can find more safety tips at www.halliburton.com/HSE.

Safety Moment Subject suggested by: Brent Johnson, Halliburton Employee





HALLIBURTON

2.2. Safety – General

Safety at Halliburton is a priority and a core value in the way we do business. Safety shall always be the number one concern in all job processes. All pertinent PPE must be worn at all times, including:

An pertinent i r E must be worn at an times, meluang.

Hard Hat, Safety Glasses, FR Clothing, Steel Toe Boots, Impact Resistant Gloves

A safety meeting will be performed before the start of the job. A JSA will be filled out and signed by everyone present.

3. Management of Change

Any deviation from the approved running procedure must be approved by the proper Halliburton and DCP personnel. Any deviation from the approved operating conditions must be approved by engineering as well.

Type of Change	Approver	Additional Approver
Changes to approved design of service (including equipment, materials, applications or software) not included in contingency planning	Service Coordinator / PSL Designee	Original design approver(s) or designee
Changes to original equipment manufacturer's specifications	Service Coordinator / PSL Designee	Original design approver(s) or designee
Changes to well site facilities that affect design of service	Service Coordinator / PSL Designee	
Changes to approved operating procedures at the well site	Service Coordinator / PSL Designee	Original design approver(s) or designee
Deviations from HMS Documentation	Service Coordinator / PSL Designee	HMS Document Owner
Deviations from Maintenance, Repair Procedures and Manuals	Service Coordinator / PSL Designee	HMS Document Owner
Changes to personnel that could negatively impact a job (excluding planned crew changes)	Service Coordinator / PSL Designee	
Changes to suppliers that directly impact the service	Service Coordinator / PSL Designee	

6.1.1 Operations-related Changes and Required Approval Levels:

6.1.2 Infrastructure Changes and Required Approval Levels:

Type of Change	Approver	Additional Approver
Changes to Facilities & Infrastructure (including temporary operations) that significantly impacts support operations	Country/District Manager/Designee	
Deviations from HMS Documentation	Country/District Manager/Designee	HMS Document Owner
Changes to key personnel	Country/District Manager/Designee	
Changes to HMS Documentation as a result of Corrective or Preventive Action from CPI or TapRooT [®]	Country/District Manager/Designee	HMS Document Owner
Changes to critical suppliers	Country/District Manager/Designee	
Changes to approved equipment design or use	Country/District Manager/Designee	Equipment Design Owner
Changes in specifications for critical products/equipment.	Country/District Manager/Designee	

⁽¹⁾ For this type of changes the Country/District Manager/Designee will request higher approval if necessary

4. Project Overview & Objectives

The objective of this project is to install an injection string with Check Valve Assembly, BWD Packer, Seal Assembly, ROC Gauge, and Subsurface Safety Valve.

5. Well Information

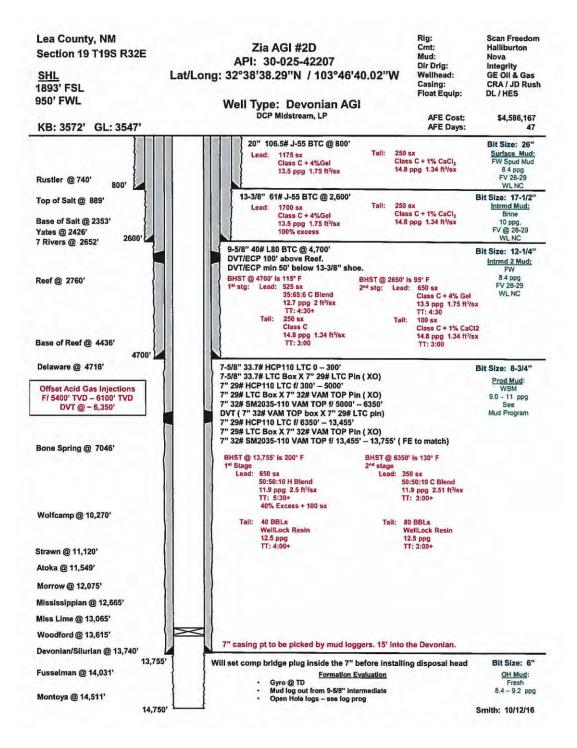


Fig. 1: Proposed Well Schematic

5.1. Well Schematic(s)

IALLIE	BURT	JN	DCP Midstream			
			ZIA AGI #2	Company Rep.	Brian Collins	8
Installa	tion		Lea County New Mexico	Sales Rep.	Lynn Talley	
			7/18/16	Office	432-682-4305	
Installation	Length	Depth	Description	1	OD	ID
			KB Correction			
			Tubing Hanger			
			1) 1 joint 3 1/2" 9.3# BTS-8 Tubing Joint	Inverted	3.500	2.9
			2) Double Pin Sub (DCP)		3.500	2.9
			3) Tubing Subs (As Required) (DCP)		3.500	2.9
			4) 3 1/2" 9.3# BTS-8 Tubing		3.500	2.9
			5) 3 1/2" 9.3# BTS-8 Box X 3 1/2" 9.2# AB		3.500	2.9
			6) Halliburton Tubing Retrievable Safet		5.300	2.8
			AB TC-II Box X Pin 102588547 Nickel All			
			Rated 875 Minimum PSI Closing, 2000 F	Si Open, 2.813" R Profile		
			7) 2 4/01 0 2# AD TO U Days X 2 4/01 0 2#		0.007	
			7) 3 1/2" 9.2# AB TC-II Box X 3 1/2" 9.3# 8) 3 1/2" 9.3# BTS-8 L-80 Tubing	BIS-8 PIN L-80 Sub (DCP)	3.907 3.500	2.9
			9) 3 1/2" 9.3# BTS-8 Box X 3 1/2" 9.2# VA		3.915	2.9
7			10) 3 1/2" 9.2# VAMTOP Inconel G3 Nick		3.500	2.9
	1.33		11) Halliburton 2.562" R Nipple 3 1/2" 9.2		3.937	2.5
	1.55		(102204262) Nickel Alloy 925	2# VANITOF BOX X FIII	3.937	2.0
	6.00		12) 6' x 3 1/2" 9.2# VAMTOP BxP Tubing		3.500	2.9
	4.83		13) HAL ROC® PT Gauge Mandrel Asse		4.660	2.9
	4.05		3 1/2 TBG DIAMETER,9.20#,VAMTOP TO		4.000	2.5
			Nickel Alloy 925 110KSI, 0.75" GAUGE			
	6.00		14) 4' x 3 1/2" 9.2# VAMTOP BxP Tubing	Sub NA 925	3.500	2.9
	0.00		A) Halliburton Seal Assembly	000 114 323	3.300	2.5
	1.76		A1) Straight Slot Locator Sub 3 1/2" 9.2	# VAMTOP Box X 3 1/2" 10.2#	4.470	2.8
			VAMINSIDE Pin Incoloy 925 (102351212			
	8.00		A2) 2-Seal Unit Ext. 3 1/2" 10.2# VAMINS		3.860	2.9
			-158726	,		
	1.99		A3) 2-Seal Units 4" X 3 1/2" 10.2 VAMIN	SIDE Nickel Alloy 925	4.050	2.8
			Molded AFLAS/Flourel Seals 4.07 OD			
	3.00		A4) 3-Seal Units 4" X 3 1/2" 10.2 VAMIN	SIDE Nickel Alloy 925	4.050	2.8
			Molded AFLAS/Flourel Seals 4.07 OD, 8	000 PSI		
┶			-102133617			
	0.55		A5) Mule Shoe Guide 3 1/2" 10.2# VAMI	NSIDE Nickel Alloy 925	3.960	2.9
			-102133560			
			Land Seals w/~26,000# Compression @	Surface, ~20K @ Packer		
╏ѧ┻┓╏╸║			Halliburton Packer Assembly			
	3.11	13,565.00	15) Halliburton 7" 26-32# BWD Permane	ent Packer 4.00" Bore	5.875	4.0
			Incoloy 925 (101303583)			
╊┛╢╟	12.00	13,568.11	16) Seal Bore Extension 4.00" X 12' Inco	bloy 925 (120051359)	5.020	4.0
<u>.</u>	0.00	40 500 44			5 050	
	0.83	13,580.11	17) Seal Bore Ext. Crossover 4 75" 8UN	Box X 3 1/2" 9.2# VAMTOP Pir	5.650	2.9
┝┫╝┝	0.00	40 500 04	Incoloy 925 (101719647)		0.540	
	6.33		18) 6' x 3 1/2" 9.2# VAMTOP Box x Pin F		3.540	2.9
₽	1.33	13,587.27	19) Halliburton 2.562" R Nipple 3 1/2" 9.3	2# VAMIOP Box x PIn	3.937	2.5
	6.94	40 500 60	(102204262) Nickel Alloy 925	Num laint lucation 005	2 5 40	
╊ ┙	6.34		20) 6' x 3 1/2" 9.3# VAMTOP Box x Pin F 21) Halliburton 2.562" R Nipple 3 1/2" 9.3		3.540	2.9
┟ ┑ <mark>╏</mark> ╶┟╴	1.33	13,594.94	(102204262) Nickel Alloy 925	2# VANITOP Box x PIII	3.937	2.5
╉╴┫╢┼┼╋	0.66	13 506 27	22) Wireline Re-entry Guide 3 1/2" 9.2#	VAM Incolov 925	3.960	2.9
↓	0.00		Bottom Of Assembly	VAM Incolog 925	3.300	2.3
▋▖▋▋		10,000.00				
			DIESEL USED FOR PACKER FLUID			
\searrow				Filename:		
\sim $>$						

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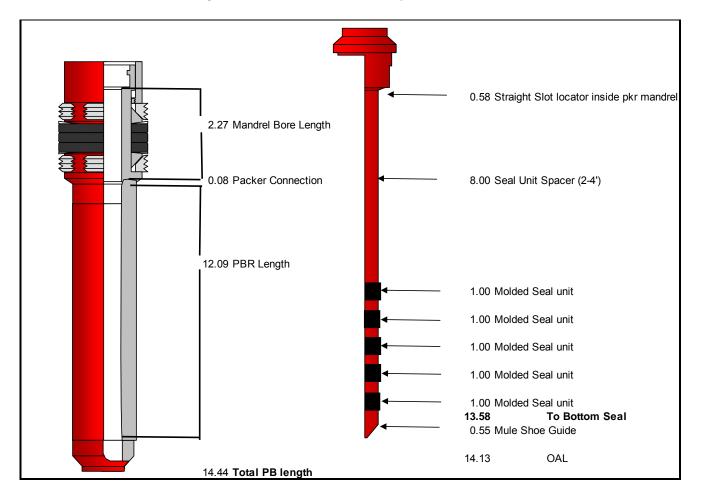


Fig. 2: Halliburton Generated Completion Schematic

Fig. 3: Halliburton Generated Packer/Seal Assembly Schematic

6. Calculations

6.1. Work String

A Torque and Drag model and Cyberstring model have been run to simulate the effects of injecting through the tie back string and BWD Packer.

7. Procedures

7.1. Pre-Job Preparation – Completions Tools

Inspect and Test HCT Equipment

- 1. Inspect and record relevant dimensions on all incoming equipment
 - a. Cross reference dimensions with machine drawings or EDS.
- 2. Generate SAMS sheets for all equipment to be RIH

Make Up and Pressure Test Assemblies in Shop

3. Make up and torque any assembly with handling pups and test 5000 psi internal pressure test.

Test Permanent Monitoring Equipment

- 4. Test ROC Gauge for functionality
 - a. Record amperage draw and voltage
 - b. Record Gauge values (pressure, temperature)
 - 5. Mount ROC Gauge to Mandrel utilizing document: **ES-A-537**
 - a. Document serial numbers on Gauge, Mandrel
 - 6. Prepare and test TEC lines
 - a. Make up Cable Termination utilizing document: ES-A-9388-5216
 - b. Document serial numbers on Cable Termination
 - c. Test ROC cable termination to 10,000 psi

Final Preparation

- 1. Gather and organize hand tools to be utilized on site
 - a. Reference ROC Gauge Tool Checklist
- 2. Perform Rig Site visit and finalize equipment placement.
- 3. On location checks (prior to RIH)
 - a. Test gauge and take readings pressure, temperature, multi-meter reading

NOTE: Ensure proper weight certifications are supplied for relevant equipment (Sheaves, Spooling units, etc.) <u>A loader is required</u> for offloading large equipment such as standalone spooling units.

7.2. Installation Job Procedure

- 1) Conduct pre-job Safety Meeting prior to rigging up to discuss running the completion. Review Safety Meeting at each tower change as the Completion is being run to ensure all personnel understand the tasks at hand.
- 2) Important: Make certain that Halliburton conducts a "Pre-Job Meeting" at every point in which the <u>completion makeup changes or any events change the installation process</u>. The meeting will involve Halliburton, Rig Representatives, Tubular Running Service Representatives and the Company Representative on location

<u>Rig Up</u>

- 1) Spot trailers and equipment on site.
- 2) Rig up Cable Protector Installation kit on Rig floor and function test. Ensure mechanical tools are available as a back-up.
- 3) Examine the Sheave and control line rigging to ensure it is properly installed
- 4) Feed the line through the Sheave. While holding the end of the cable and assemblies pick up the Sheave with the winch line and secure to the Derrick.
 - a. The Sheave should be as high above the Rig floor as possible to optimize the cable running angle. Sheave should be hung from Rig tubing board.
 - b. Sheave needs a set of slings (primary and backup) to be secured to tubing board or derrick.
- 5) Connect surface equipment to spooling units and check continuity.
- 6) If leaving Sheave rigged up overnight be sure it is secured to the derrick so it will not blow in the wind.

BWD Packer

- 1) Well Preparation
 - a. It is recommended that a casing scraper be used to thoroughly scrape the area where the Packer will be set. High circulation rates during scraper run are recommended.
 - b. A gauge ring and junk basket should be run on wireline
- 2) Pump Out Plug
 - a. Insure that the POP is pinned to discharge at approximately 3200 psi applied pressure. This will depend on the fluid depth in the well before RIH. Verify fluid depth with customer.
 - b. Each pin is rated to 5,000 lb. (707 psi/pin).
 - c. The POP will be pinned with 3 pins before being sent to location.
- 3) RIH Wireline
 - a. Inspect Packer Verify the slips have not been damaged, verify the top slip support and wedges are not sheared, and verify the metal backup shoes and rubber elements are not damaged.
 - b. RIH with the setting tool, adapter kit, BWD, 6 ft. pup, 2.562" R nipple, 6 ft. pup, 2.562"

R nipple, and WL re-entry guide with POP. (~32 ft from top of adapter kit to bottom of POP)

- c. Do not exceed 100 ft/min when RIH
- d. Packer will be ran in 8.33ppg fresh water (if necessary, the well may have to be killed with cut brine, confirm well fluid on site)
- 4) Confirm Packer setting depth on location. Planned setting depth is approximately 13,565 ft. This is ~70 ft. above the top of the 6" open hole

Run Tieback

- 1) The tieback will consist of seal assembly, ROC Gauge (TEC to surface), 2.562" R Nipple, and a 3 1/2" NE HES SSSV (hydraulic control line to surface).
- 2) Make up seal assembly proceed to ROC Gauge section below.
- 3) There will be 2000 psi on the hydraulic control line when RIH
- 4) Place cross coupling cable protector over every coupling.

ROC Gauge Mandrel

- 5) Make up ROC Gauge Mandrel
 - a. Make sure mandrel is rotated to align with overhead TEC line
- 6) Make up TEC Cable Termination to ROC Single-End Gauge
 - a. Utilize document **<u>ES-A-530</u>** for Termination to Gauge make up
 - b. Verify Gauge communication
 - c. Approximate completion time is 1 hour

NOTE: When the Run-In-Hole begins for any Electronic Gauge assemblies, ZERO TENSION should be applied to the control line. The Pressure setting on the Spooling Units should be set to allow the Units to spool out as the Cables are deployed. **After 5 Cross Coupling Protectors** have been installed above the Gauge Mandrel, it is recommended to increase the Control Line Spooler tension as directed by the HCT supervisor on location. (Normal setting is + 25 PSI on the Spooler motor) and ensure the proper tension is maintained at all times.

- 7) Install mid joint protector above Gauge Mandrel
 - a. Cross coupling at next collar on handling pup
 - b. Cross couplings on every joint thereafter

Note: Pipe Rams are NOT to be used with TEC or Control Line in well. Annular bags may be used starting at the lowest possible pressure setting to avoid crushing lines. (600 psi – 900 psi)

- 8) Run-in-hole while placing protectors at every coupling. Verify the number of protectors you will need
 - a. Maximum RIH speed will be determined by the Halliburton Service Specialist on location.

SSSV - See section 9 of HCT Field Operations Manual

- 1) Make up HIF fitting to end of spool and pressure test prior to picking up equipment
- 2) Discuss placement of spool with Company Representative
- 3) Upon making up control line to TRSV, refer to BDMI no. 478LXE11 for proper installation of HIF connection.
- 4) Test TRSV control line connections to 500 psi LOW/10,000 psi HIGH before RIH, maintain 2,500 psi on control line during RIH.
- 5) Place hydraulic line under cable protectors on the left side of the TEC line

Landing Seal Assembly / Tubing Hanger and Operations

- Tag seal assembly and determine amount of space out pups. After space out there needs to be ~20,000 lb. of compression at the Packer. This will be equivalent to 26,000 lb of slack off at surface.
- 2) Install space out pups as needed
- 3) Make up Tubing Hanger under GE guidance
- 4) Terminate the data acquisition and cut/strip encapsulation on TEC to prepare for feed-through
- 5) Place first set of Swagelok fitting (supplied by GE) on the stripped lines to be installed into bottom of Hanger
- 6) Feed lines through Hanger and make up second set of Swagelok fittings (supplied by GE) on lines to be installed into top of Hanger
 - a. Pull slack and tighten Swagelok fittings 1 ¼ turns past hand tight
- 7) Make "Temporary Splice" on hydraulic line and TEC line to monitor while landing tubing hanger
- 8) With end of seal assembly as close as possible to the Packer bore, hanger in place and tubing suspended with landing joint and TIW valve, close Annular for circulation
- 9) Circulate customer specified fluids down the tubing
 - a. Before entering the Packer seal bore, tie onto tubing string with pump truck and pump 20 bbl of dyed spacer followed by 500 bbls diesel Packer fluid mixed with 5bbls of Baker CRO 381 corrosion inhibitor at a max rate of 3bpm.
 - b. Stop pumping diesel when the dyed gel spacer circulates out of the tubing x casing annulus and clean diesel appears at the surface. The tubing and tubing x casing annulus will be full of diesel Packer fluid when finished. The capacity of the tubing is

approx. 120 bbls. The capacity of the tubing x casing annulus above the Packer is approx. 350 bbls for a total of 470 bbls.

Maximum rate – 3BPM Maximum pressure – 1500 psi (VALID ONLY WITH 3 PINS IN POP)

- 10) Open annular and land tubing hanger. Tighten packoff screws
- 11) Verify electrical continuity with the Gauge

Wellhead Assembly and Wellhead Rigs

- 1) If applicable, service loop the TEC line and hydraulic control line above the tubing hanger.
- 2) While the Wellhead is suspended, pass the lines through the Exit Ports
- 3) Lower the Wellhead carefully, watching for any pinch points that could damage lines
- 4) Once the Wellhead is properly seated, verify electrical continuity
- 5) Install Wellhead exit block (1/2" NPT) and install Halliburton wellhead outlet fitting
 a. Tighten Swagelok fitting 1 ¼ turns past hand tight
- 6) Pressure test wellhead prior to final outlet installation to 250 psi for 10 minutes followed by 5000 psi for 10 minutes
- 7) Continue with installation of Wellhead Outlet per Halliburton documentation.
- 8) Pressure test tubing-casing annulus to 500 psi for 30 minutes

 a. Pressure test should not deviate more than 50 psi
- 9) Bleed annulus to a minimum of 250 psi in order to monitor the backside while expending the pump out plug.
- 10) Rig up to tubing and expend POP
 - a. With 3 pins in the POP, the plug should expend at approximately 3200 psi
 - b. Tubing movement calculations below
 - 2000 psi on annulus will produce 2.66 ft of seal movement
 - 1000 psi on annulus will produce <u>4.34 ft</u> of seal movement
 - 250 psi on annulus will produce 5.66 ft of seal movement (worst case scenario)
- 11) Run check valve assembly to lowermost R nipple
- 12) Final "Health Checks" on TEC to be performed and ensure Gauge is reading
- 13) Connect the surface cables and surface equipment
 - a. Install surface cable in a cable tray

7.3. Injection (Acid Gas)

1) During acid gas injection, Cyberstring predicts approximately 3.64 ft of seal movement

- a. Parameters used
 - i. 6.40 lb/gal fluid (gas mixture)
 - ii. 2,500 psi injection pressure
 - iii. 0 psi on annulus
 - iv. 6.8 lb/gal in annulus

#	Scenario	Initial Slackoff on BWD	Tubing Pressure	Annulus Pressure	Fluid Rate	Weight Down on BWD	Seal Movement
1	Test annulus	20,000 lbs	0	500	0	20,000+ lbf	0 ft.
2	P.O.P	20,000 lbs	3500	250	0	0 lbf	5.66 ft.
3	Gas Injection	20,000 lbs	2,500	0	4 BPM	0 lbf	3.64 ft.

8. Testing and Validation

8.1. Pre-Test Preparation

Pressure test using HMS standards

8.2. Test Procedures

N/A

9. Contingency

Failure	Action
Completion String loses weight	Lightly reciprocate and record pickup/slack off. Work through obstruction and consult Company
immediately (stops high)	Representative if no progress is made.
Crushed/Cut lines	Consult Company Representative and Halliburton Supervisor on installing a TEC Splice
Gauges stop communicating	Stop RIH immediately. Check all surface connections back to the XPIO using Multi-Meter. Check
	XPIO settings (voltage, gain) to regain communication with Gauges. If Gauges are not
	communicating, consult Company Representative to determine whether RIH will proceed or not.
Stinging In Tieback	If mule shoe does not fall into Packer bore, rotate string to give ¼ turn at the mule shoe and try to
	re-enter Packer. Consult with Halliburton Supervisor before making additional turns.

10. Risk Assessment

10.1. Risk Assessment Table

Risk Assessment										
Project/Well: DCP Zia AGI #2										
Completed By:	Casey Lehmann		Target		Existing	S		After Controls		
Risk Description	Cause	Effects	Target	Sev	Prob	RPC	Controls to Reduce Risk	Sev	Prob	RPC
Components damaged during transport	Improper handling with Hot Shot Service	Increased risk of job failure		2	D	3	Use trained and reliable Hot Shot Service	2	E	3
Vehicle accident	Improper driving Driver not properly rested Weather conditions	Injury or death Loss of company property	3	2	В	1	Be properly rested before journey Do not begin driving in poor weather Utilize journey management			
Damage to equipment	Rough driving or roads Improper packaging Not secured for transport	Equipment in need of remedial work or replacing	3	2	С	2	Strap down equipment Leave thread caps on until it is time to makeup tools			
Over pressured Iron	Being around iron that is under pressure	Injury or death	3	1	D	2	Communicate with cement crew to know when iron is under pressure. Avoid these areas	2	D	3

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Pinch Points	Placing hands or other body parts	Injury or death	2	1	В	1	Avoid pinch points. Wear proper PPR		
	in a pinch point								

10.2. Risk Rating Matrix

	Potential Consequences I			Probability Rating						
Hazard Severity Category	Descriptive Word	Personal Illness/ Injury	Equipment Loss(s)	Environmental (Any incident that)		B Reasonably Probable	C Occasional	D Remote	E Extremely Improbable	F Impossible
1	Catastrophic	Fatal or permanent disabling injury or illness	>\$1,000,000	Potentially harms or adversely affects the general public and has the potential for widespread public concern of Halliburton operations. Can have serious economic liability on the operation.	1	1	1	2	3	3
2	Critical	Severe Injury or illness	\$200,000 to \$1,000,000	Potentially harms or adversely affects trained employees and the environment. Requires specialised expertise or resources for correction.	1	1	2	3	3	3
3	Marginal	Minor Injury or Illness	>\$10,000 to \$200,000	Presents limited harm to the environment and requires general expertise and resources for correction	2	2	3	3	3	3
4	Negligible	No Injury or Illness	<\$10,000	Presents limited harm to the environment and requires minor corrective actions (CPI).	3	3	3	3	3	3

11. Appendix

11.1. Equipment Specifications

11.1.1. Packer

HALLIB	URTON	D
Engineering	December 13, 2016	
EQUIPMENT MATER	RIAL NO.: 101303583	
PKR,7,26-32 X 4	4.000,4 3/4-8 UN	
PART NUMBER: 212BWD70412-D		
DESIGN SPE	CIFICATIONS	
CASING SIZE	7	
WEIGHT RANGE	26 TO 32 pound/foot	
MAXIMUM OD	5.875 inch	
MINIMUM ID	4.000 inch	
SEAL BORE ID-MIN	4.000 inch	
LENGTH	47.06 inch	
MATERIAL	NICKEL ALLOY 925	
MATERIAL YIELD STRENGTH-MIN	110000 pounds/sq. inch	
ELEMENT MATERIAL	AFLAS RUBBER	
O-RING MATERIAL	AFLAS RUBBER	
O-RING BACK-UP MATERIAL	PEEK	
ACCEPT STANDARD SEAL UNIT	YES	
BOTTOM THREAD	4 3/4-8 UN-2B	
CONNECTION TYPE	BOX	
TEMPERATURE RATING	100 TO 300 Deg. F	
SERVICE	H2S/CO2	
MEETS REQUIREMENTS OF	MR-01-75	
PRESSURE RATING	10000 pounds/sq. inch	
PRESSURE RATING REMARKS	ELEMENTS	
BURST PRESSURE (CALC)	13400 pounds/sq. inch	
COLLAPSE PRESSURE (CALC)	10200 pounds/sq. inch	
SHEAR STRENGTH TOP SUB, CALC/1000	60.1 pound	
DIM A	7.75 inch	
DIM B	47.06 inch	
DIM C	5.13 inch	
DIM D	5.875 inch	
DIM E	4.610 inch	
DIM F	4.000 inch	
DIM G	25.00 inch	
DIM M	.09 inch	
DIM N	.08 inch	
MILL DISTANCE, APPROXIMATE	25.00 inch	

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DRIFT GAGE	101089074 (81TO355)
GAGE RING	101016925 (241B7088)
J-LATCH SEAL PLUG	101015577 (212JP7003)
J-LATCH SEAL PLUG-ALLOY	101016700 (212JPN40000-A)
HYDRAULIC SETTING TOOL	101054294 (241HS7002)
HYDRAULIC TUBE GUIDE	100008580 (212K7472)
SETTING KIT F/ #20	101016711 (241AO198)
MATING SEAL BORE EXTENSION	100008567 (212C7060)
MATING MILL OUT EXTENSION	100008573 (212F7460)
MATING COUPLING	100009772 (212F7459)
BDMI/TECHNICAL OPERATIONS MANUAL	212WSPS00000
(END)	
(Unless specified, Dim-inches, pres-psi, weight-lbs, temp-deg F)	

NOTE: Values of pressure, force and operating depths presented above are based upon empirical data and theoretical calculations. These values will vary within accepted engineering limits due to variations in material strength, dimensional tolerances and actual installed conditions.

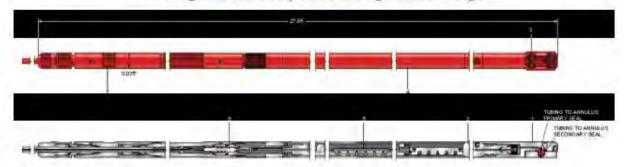
NOTE: Halliburton makes no warranty, either expressed or implied, as to the accuracy of the data or of any calculation or opinion expressed herein. Halliburton, Dallas, Texas, U.S.A.

11.1.2. ROC Gauge

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8.6 ROC Gauge - Single Ended

Gauge Sub-Assembly ROC-175 Single Sensor Gauge



Design Specifications

NAME	VALUE
OD:	0.75″
MAX. OVERALL LENGTH INCLUDING TERMINATION :	28.75*
WELL BORE MECHANICAL INTERFACE:	ALL PT SENSORS TO BE INDEPENDENTLY PORTED THROUGH GALIGE MOUNT SUB CARRIER DUAL METAL SEAL ARRANGEMENT.
MATERIALS/FLUID COMPATIBILITY:	ALL WETTED PARTS TO BE MP35N CORROSION RESISTANT ALLOV FULLY COMPLIANT WITH LATEST REVISION OF NACE MR0175.
PRIMARY SEAL TECHNOLOGY:	DUAL METAL SEAL OR ELECTRON BEAM WELD IN ALL SEAL AREAS EXPOSED TO WELL FLUIDS.
MULTI-DROP CAPABILITY:	6 GAUGES PER CHANNEL AT UP TO 35,000FT
MAX. PT SENSORS PER GAUGE:	1
MAX. OPERATING PRESSURE:	15,000PSI
MAX. OPERATING TEMPERATURE:	175°C
MIN. OPERATING TEMPERATURE:	-20°C
PRESSURE ACCURACY:	+/- 0.02% FS
PRESSURE RESOLUTION:	<0.008 PSI/SEC (<0.00041 BAR/SEC)
TEMPERATURE ACCURACY:	+/- 0.5°C
TEMPERATURE RESOLUTION:	<0.005°C/SEC
MAX. SAMPLING RATE	1 SEC
DRIFT:	TEMPERATURE: <0.1°C/YEAR; PRESSURE: <0.02% FS/YEAR @ MAX PRESSURE AND TEMPERATURE.
TARGET RELIABILITY AT MAX. OPERATING TEMPERATURE:	90% AFTER 10+ YEARS AT 160 DEG.C
MAX. OPERATING RANDOM VIBRATION:	10G RMS
MAX. OPERATING SHOCK:	100G 2MS ½ SINE 6 AXIS (500 G PENDING EXTENDED TEST)

11.1.3. SSSV

HALLIBURTO	NC
Engineering Data S	November 22, 2018
EQUIPMENT MATERIAL NO.: 1	02588547
TRSV,NE,5.30 2.813,H2S,	10K
PART NUMBER: 478HRE18	
	NIC .
DESIGN SPECIFICATIO	N 5
VALVE MODEL	NE
CLOSURE TYPE	FLAPPER
SIZE	3 1/2
LOCK PROFILE	R
MINIMUM INSIDE DIAMETER WITHOUT PACKING BORE	2.840 inch
TOP SEAL BORE ID-MINIMUM	2.813 inch
BOTTOM SEAL BORE ID-MINIMUM	2.813 inch
MAXIMUM OD	5.300 inch
LENGTH	55.68 inch
MATERIAL	NICKEL ALLOY 925
SERVICE	H2S
SERVICE REMARKS	H2S AND/OR CO2 SERVICE BASED ON CUSTOMER DEFINED, WELL SPECIFIC CONDITIONS. APPLICATIONS MUST BE REVIEWED FOR SPECIFIC ENVIRONMENTAL COMPATIBILITY.
MEETS MATERIAL SERVICE REQUIREMENTS OF	NACE MR0175/ISO 15156
TOP THREAD	3 1/2-9.20 AB-TC-II
BOTTOM THREAD	3 1/2-9.20 AB-TC-II
CONNECTION TYPE	BOX-PIN
TUBING THREAD TORQUE	2300 foot pound
TUBING THREAD TORQUE REMARKS	BASED ON TRSV END CONNECTION YIELD STRENGTH. CONSULT THREAD VENDOR FOR COMPLETION-SPECIFIC RECOMMENDED TORQUE VALUES.
PRESSURE RATING	10000 pounds/sq. inch
BURST PRESSURE AT AMBIENT, CLOSED ENDS	15952 pounds/sq. inch
INTERNAL YIELD PRESSURE AT MAX TEMPERATURE RATING, VALVE OPEN	14587 pounds/sq. inch
API COLLAPSE PRESSURE AT AMBIENT	11696 pounds/sq. inch
API COLLAPSE PRESSURE AT MAX TEMPERATURE RATING	11105 pounds/sq. inch
EXTERNAL PRESSURE RATING AT AMBIENT, ENDS OPEN	10000 pounds/sq. inch
MAXIMUM CONTROL CHAMBER PRESSURE, AT AMBIENT	20000 pounds/sq. inch
MAXIMUM CONTROL CHAMBER PRESSURE, AT MAX TEMPERATURE RATING	20000 pounds/sq. inch

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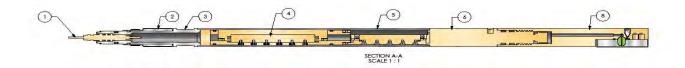
TENSILE WITH WORK PRESS, WITHOUT TBG THD, AT AMBIENT, ENDS OPEN, CALC/1000	408 pound
TENSILE WITHOUT WORK PRESS, WITHOUT TBG THD, AT AMBIENT, CALC/1000	498 pound
TENSILE WITH WORK PRESS, WITHOUT TBG THD, AT MAX TEMPERATURE RATING, ENDS OPEN, CALC/1000	373 pound
TENSILE WITHOUT WORK PRESS, WITHOUT TBG THD, AT MAX TEMPERATURE RATING, CALC/1000	463 pound
TEMPERATURE RATING	20 TO 300 Deg. F
MAXIMUM FULL OPEN PRESSURE	2000 pounds/sq. inch
MINIMUM CLOSING PRESSURE	875 pounds/sq. inch
PISTON DISPLACEMENT VOLUME	.75 cu. inch
EQUALIZING FEATURE	YES
MAXIMUM PRESSURE DIFFERENTIAL AT VALVE OPENING	10000 pounds/sq. inch
CONTROL LINE PRESSURE TO EQUALIZE AT PRESSURE RATING	7500 pounds/sq. inch
CONTROL LINE CONNECTION	7/16-20 HIF
HIF KIT	101085853 (93F1499)
LOCKOUT TYPE	NE
COMMUNICATION TYPE	NE
LOCKOUT TOOL, PERMANENT	101316031 (4200717)
LOCKOUT TOOL REMARKS	LOCKOUT ONLY, NO COMMUNICATION
PRESSURE TO LOCK OUT	1000 pounds/sq. inch
COMMUNICATION TOOL	101316024 (4200716)
INSTALLATION EXTENSION	PENDING
INSTALLATION EXTENSION O-RING	100009103 (91QV1033-H)
WIRELINE REPLACEMENT VALVE	PENDING
RUNNING/PULLING PRONG EXTENSION	PENDING
ISOLATION ASSEMBLY LOCK MANDREL TYPE	2.813 R
ISOLATION ASSEMBLY EQUALIZING VALVE TYPE	2.813 RO
ISOLATION ASSEMBLY EXTENSION MANDREL	PENDING
ISOLATION ASSEMBLY EXTENSION MANDREL O-RING	100009103 (91QV1033-H)
ISOLATION SLEEVE	101073454 (78D2221)
ISOLATION SLEEVE O-RING	100009103 (91QV1033-H)
SEAT INSERT INSTALLATION TOOL	101275474 (83M2051)
SEAT INSERT TORQUE-MIN	2000 foot pound
BODY TORQUE	5300 foot pound
SHOULDER BOLT TORQUE	90 inch pound
SPRING COMPRESSION TOOL	101275476 (83M2052)
SPRING COMPRESSION SLEEVE	101275478 (83M2053)
DRIFT BAR	101088124 (81R105)
DRIFT BAR OUTSIDE DIAMETER	2.803 inch
DRIFT BAR LENGTH	24.00 inch
TEST FIXTURE-BOX END	101091172 (81T12995),101090541 (81T12102)

TEST FIXTURE-PIN END	101091171 (81T12994), 101247913 (81T16241)			
API TYPE	SCTRSV			
MEETS QUALITY REQUIREMENTS	API-Q1/ISO 9001			
MEETS INDUSTRY SPECIFICATION(S)	API 14A			
API SPECIFICATION EDITION	TWELFTH			
API VALIDATION GRADE	V4-1			
API VALIDATION DATE	12-03-15			
API VALIDATION METHOD	VARIATION			
API VALIDATION REFERENCE	78001163			
BDMI/TECHNICAL OPERATIONS MANUAL	478HRE18			
RATED PERFORMANCE ENVELOPE, ENDS OPEN	478HRE18			
(END)				
(Unless specified, Dim-inches, pres-psi, weight-lbs, temp-deg F) NOTE: Values of pressure, force and operating depths presented above are based upon empirical data and theoretical calculations. These values will vary within accepted engineering limits due to variations in material strength, dimensional tolerances and actual installed conditions.				
NOTE: Halliburton makes no warranty, either expressed or implied, as to the accuracy of the data or of any calculation or opinion expressed herein. Halliburton, Dallas, Texas, U.S.A.				

ROC Single Ended Pressure Temperature Gauge









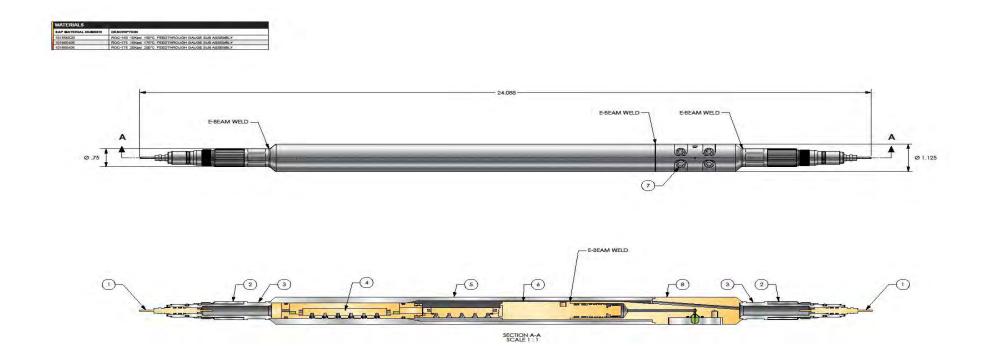
 ROC GAUGE (# 0.750")
 Image: 0.07

 Image: 0.07
 Image: 0.07

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ROC Feed Through Pressure Temperature Gauge



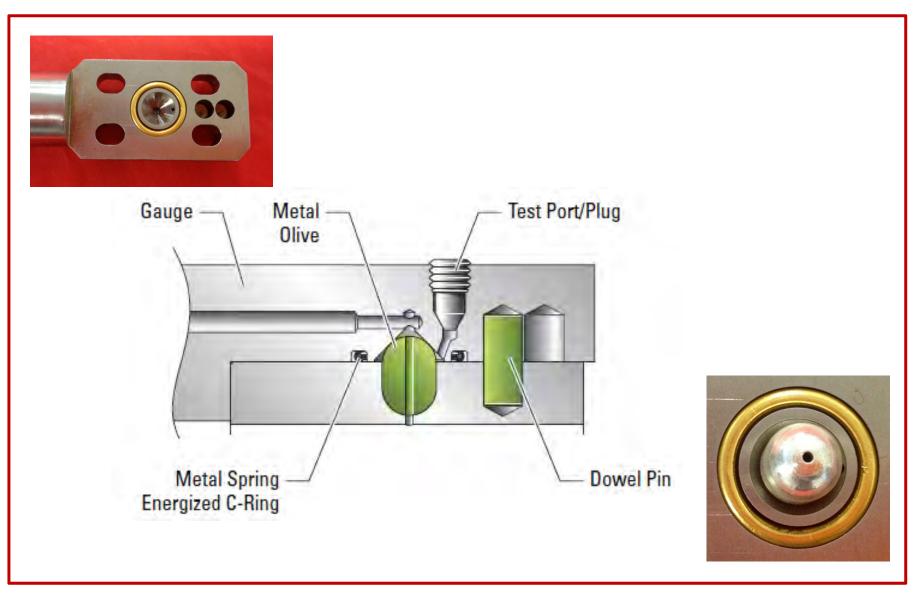






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ROC Gauge To Gauge Mandrel Seals



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Operational Instructions for Hydraulic Control Panel

The control panel is used to control the Subsurface Safety Valve (SSSV) and the Wing Valve (WV). These instructions will be updated when panel is re-piped to allow cycling of SSSV without closing the Wing Valve (WV).

FOR EMERGENCY SHUTDOWN (THIS SHUTS THE SSSV AND THE WING VALVE (WV)):

- 1. Push in Red ESD/TSE handle on front of panel.
 - ESD/TSE holding pressure will immediately go to 0 PSI.
 - Wing Valve (WV) will close over 90 seconds and the output pressure should slowly drop to 0 PSI.
 - After 90 second delay, SSSV will close and SSSV output pressure will drop to 0 PSI (Hydraulic supply pressure will also drop, but may not reach 0 PSI).

TO REOPEN SSSV AND WING VALVE (WV):

- 1. Pull out Red ESD/TSE handle and hold for several seconds.
 - ESD/TSE holding pressure will increase to set level (~60 PSI).
 - Hydraulic pump will engage and SSSV output pressure will increase. At ~2000 PSI, the pressure will bobble (rise and fall) as the sleeve on the SSSV slides down opening the valve. Once the sleeve is in place, the SSSV output pressure will rapidly climb to just below the set pressure (~3000-3500 PSI). The pump will then slow down pump to the set level over the next several minutes.
- 2. Pull out Black Wing Valve (WV) handle and hold for several seconds.
 - Wing Valve (WV) output pressure will increase to set level (60-110 PSI). The Wing Valve (WV) will slowly open until the valve is completely open.

TO CYCLE SSSV OR TEST SSSV WHILE INJECTING (Without shutting wing valve)

1. Manipulate the SSSV valve from the In service to Shut In position. If this valve is used the wing valve should stay open.

NORMAL OPERATION

<u>Red ESD/TSE pull handle & Black Wing Valve (WV) pull handle</u> Handles should be out during normal operation.

Panel supply pressure

Panel is controlled pneumatically. Panel supply pressure should be >30 PSI and <125 PSI. We suggest \sim 75 PSI. This level depends on air supply pressure and is controlled by regulator closest to panel supply (B-1 on diagram).

ESD/TSE holding pressure

Pressure must be >20 PSI for the proper operation of the panel. The preset is for 60 PSI. This level can be controlled using the regulator on the right hand side of the panel interior.

Output pressure to SSSV

Pressure should be >2500 PSI and <5000 PSI. We recommend 3000-3500 PSI. This level will fluctuate due to temperature changes (both atmospheric and injection fluid) and is controlled by the regulator next to the hydraulic pump (C-2 on diagram). While the panel supply pressure is between 30 and 125 PSI, the hydraulic pump (S-1 on diagram) should automatically engage to maintain pressure to SSSV. Should the panel supply pressure drop below ~30 PSI, the pump can be manually operated using the handle attached to the back door of the control panel.

Output pressure to Wing Valve (WV)

The Wing Valve (WV) output pressure should be between 60-110 PSI. This level is determined by the Wing Valve (WV) and should not require adjustment as long as the panel supply pressure is sufficient for operation.

Hydraulic supply pressure

The hydraulic supply pressure is linked to the operation of the SSSV and should equal the SSSV output pressure. The sight glass shows the level of hydraulic fluid and should be maintained at $\sim 3/4$ full. Fluid can be added through the fill cap on the top of the panel just above the sight glass. Use H-32 hydraulic oil.

In-Service/Bypass/Wing Valve (WV) handle

Handle should be set to In-Service during normal operation.

MAINTENANCE (CYCLING OF SSSV)

The SSSV sleeve should be cycled (activated) roughly once a month to prevent scale build-up on the SSSV and to check performance.

- 1. Go to wellhead and manually open Wing Valve (WV) to hold valve in full open position (piston fully depressed into valve). Important: If this step is not taken first, the Wing Valve (WV) will shut and cause interruption of acid gas injection and emergency shutdown of compressor due to over-pressuring.
- 2. Turn the In-service/Bypass/Wing Valve (WV) handle to Bypass.
- 3. Push in the red ESD/TSE handle and wait ~90 seconds until the SSSV closes (output pressure goes to 0 PSI).
- 4. Pull out and hold the ESD/TSE handle for several seconds. Watch the SSSV output pressure and make certain that the pressure bobbles (rises and falls) at ~2000 PSI before climbing to the set pressure. If the pressure does not bobble, it may mean the sleeve has become stuck in the up position. Repeat the process.
- 5. Return the In-service/Bypass/Wing Valve (WV) handle to the In-service position.
- 6. Go to wellhead and manually close Wing Valve (WV) and verify that piston remains in full open position (piston fully depressed into valve) when manual valve is fully unscrewed to beyond close position. Verify that piston remains fully depressed into Wing Valve (WV) for at least 2 minutes and that output pressure to Wing Valve (WV) is within range as measured on hydraulic control panel.

For Help with Panel

Call RSI Global – Louis Lesage 504-340-1992 Job number 2012110063

INSTALLATION INSTRUCTIONS

- Connect a clean/dry air/gas supply of less than 200 psi to the panel bulkhead labeled "Panel Supply." Connection Type 3/8" tubing.
- 2. Route "Drain" bulkhead to a safe drain area. This drain will produce water from the air supply if the supply is not dry. Connection Type 1/4" tubing.
- 3. "ESD/TSE" bulkhead may be connected to local ESD stations, and/or appropriate fusible devices, or may simply be plugged if not in use. Connection Type 3/8" tubing.
- 4. Connect pneumatic "Wing Valve Output" bulkhead and hydraulic "SCSSV Output" to their respective valve ports. Connection Type 3/8" tubing.
- 5. Connect 24V DC power to Terminal Block 1 and ground to Terminal Block 3 IAW Electrical Schematic on –PH1 drawing.
- 6. Connect PLC open and Close signal to appropriate Solenoid Valve Terminals and connect wiring to pressure transmitters for Status IAW Electrical Schematic on –PH1 drawing.
- 7. Fill hydraulic reservoir to full level with standard hydraulic fluid, i.e. Shell Tellus 32.

OPERATING INSTRUCTIONS

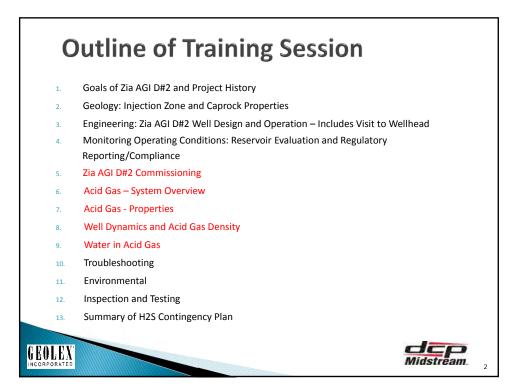
- 1. Once air supply is connected, open ball valve A-1 to allow air flow to regulator B-1.
- 2. Adjust regulator B-1 (inside of panel) until Panel Supply Pressure Gauge D-1 reaches appx 100-120 psi.
- 3. Then set regulator C-1 (inside of panel) at 60 psi.
- 4. Pull relay G-1 to charge the ESD system. As long as the ESD solenoid Q-3 is closed, and the ESD outlet is connected or plugged, ESD holding pressure of 60 psi should be read on gauge E-1.
- 5. Ensure hydraulic interface valve W-1 is not over ridden. To do this, make sure the over ride handle is turned completely counter clockwise. Also at this time, make sure that SCSSV solenoid is in the open position. With power connected to the panel, this may be done either from PLC or at the panel face by the open switches.
- 6. To set pump regulator, pull know up and turn clockwise until pump reaches desired operating pressure on gauge F-1. If pressure will not build, the pump may not be primed, and the output to SSSV may need to be opened to release air from the line.
- 7. At this time, with the Wing valve solenoid Q-2 open, pull the Wing valve relay and pressure should be read on gauge E-2.

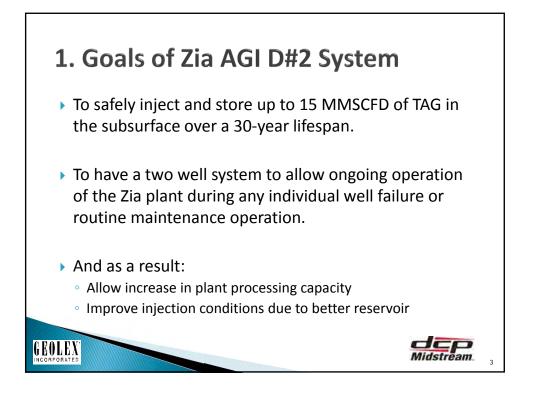
8. Panel is now operating. To set a SCSSV delay closing, adjust the flow control valve P-1 inside of the panel. Turning this valve clockwise will increase the delay time. If this valve is open, there should be very minimal or no delay.

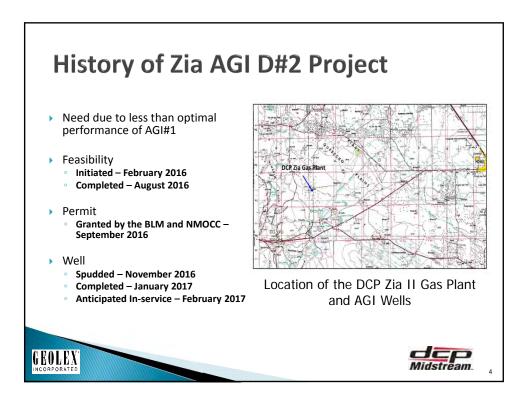
- 9. For testing purposes, the wing valve and SCSSV may be opened or closed independently by manipulating their respective bypass/in service valves.
- 10. To remotely perform a complete shut in, the ESD solenoid valve Q-3 may be opened. This valve can be closed remotely but the panel ESD must be manually charged by pulling of the panel mounted relay.
- 11. To adjust the hydraulic relief valve, loosen lock nut and turn clockwise to increase relief pressure or turn counter clockwise to decrease.

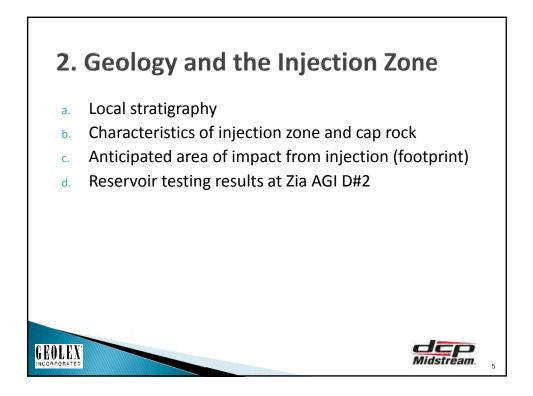
AGI System Training and Maintenance

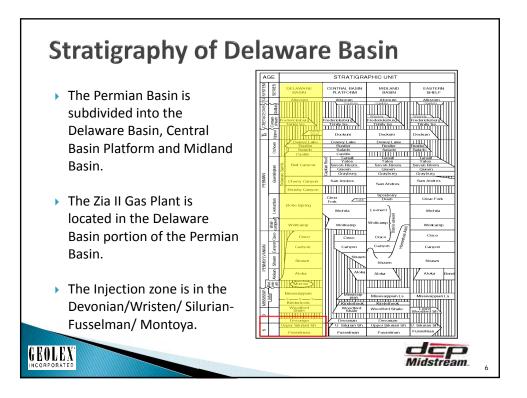


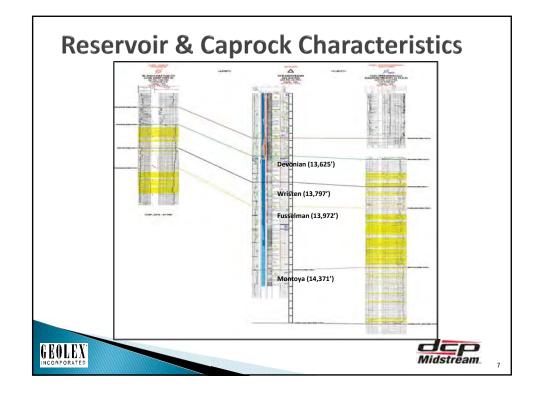


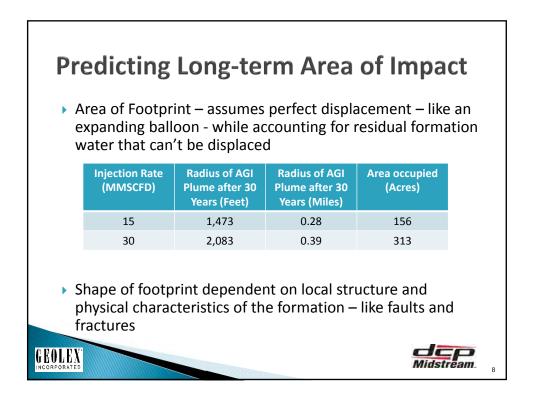


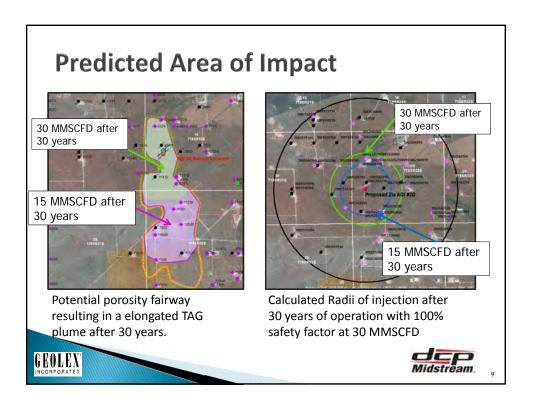


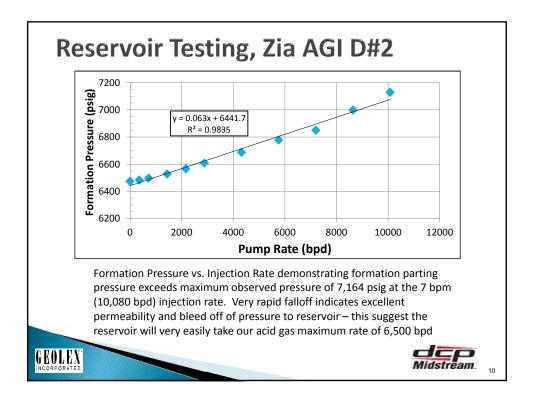






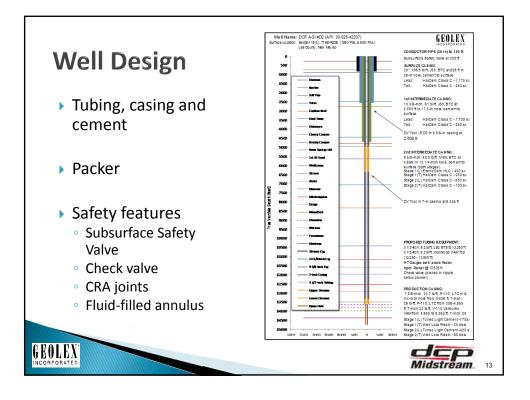


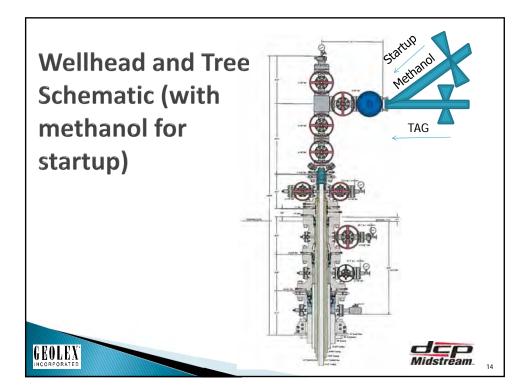


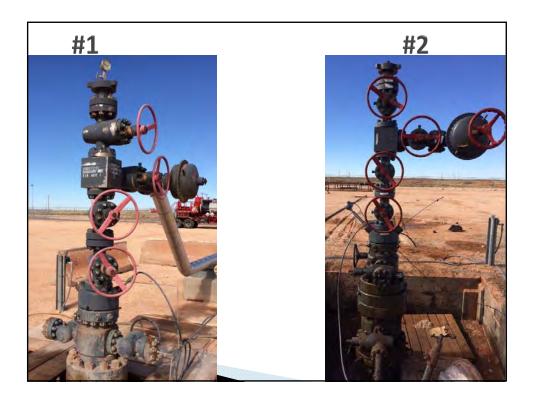


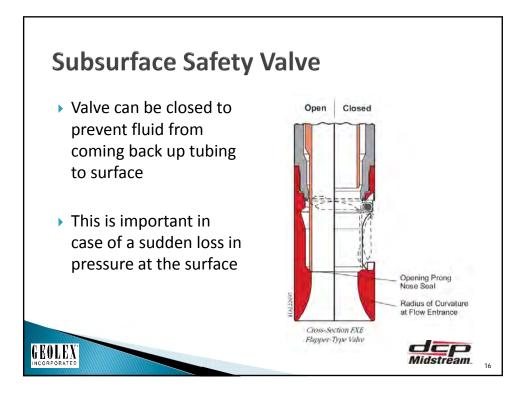


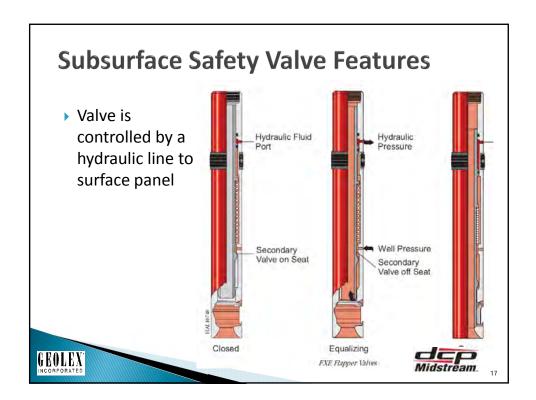
Automatic Subsurface Safety Valve
1 1/-* 9.34/h 544-2550 Prem. ⊕**5,500*
Perforations @ "5,350" 6,050"
Pacher @ 12,555' Dipen Hole Completion "13,622 - 14,750'
9

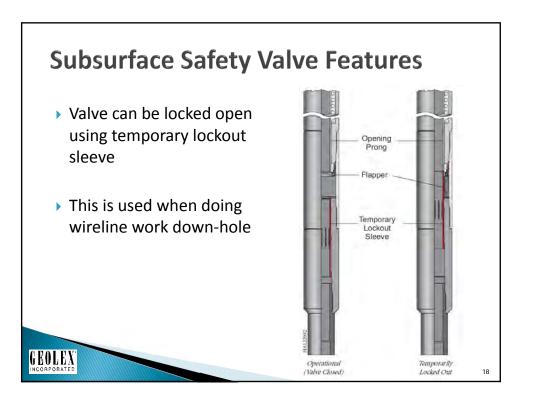


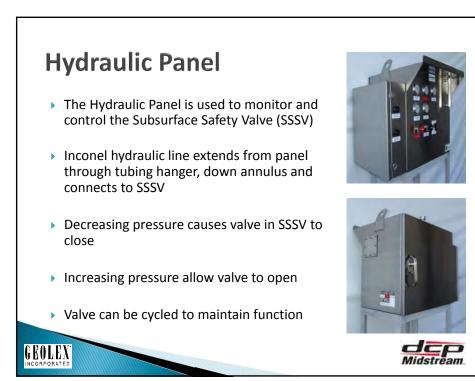


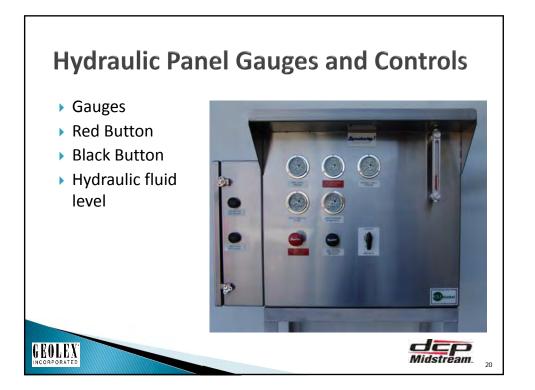


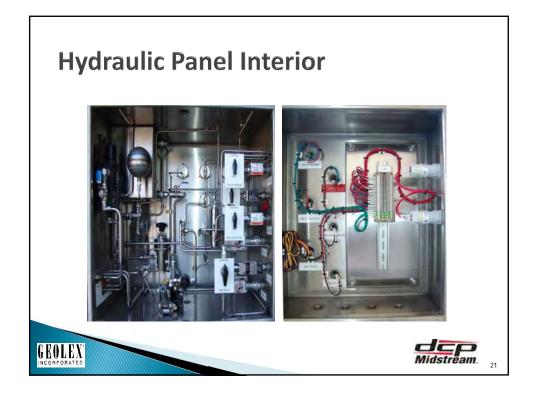


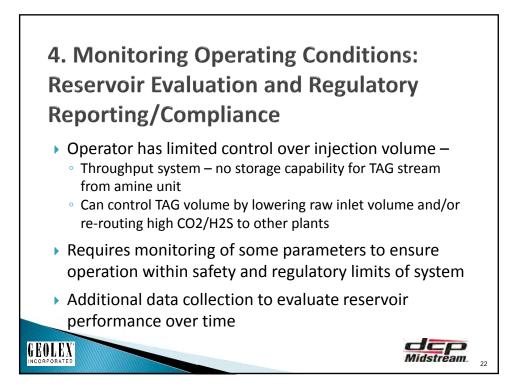


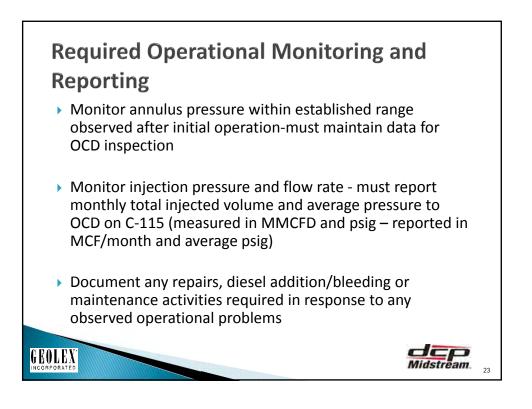


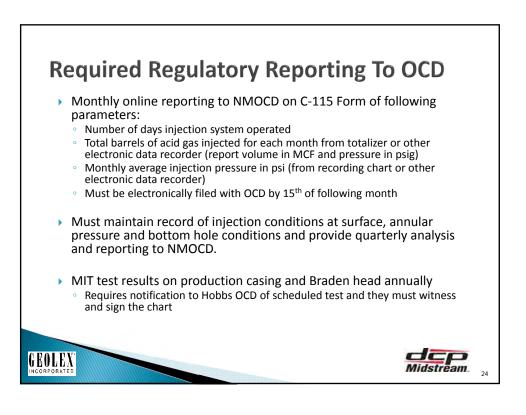


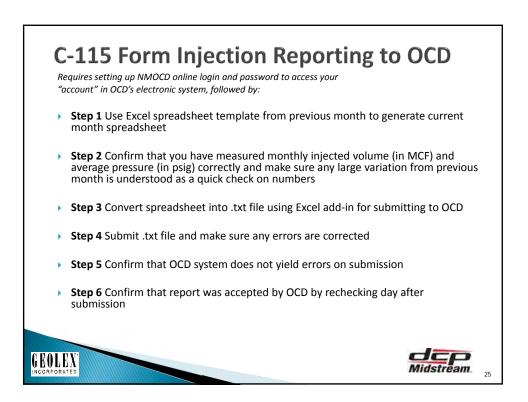


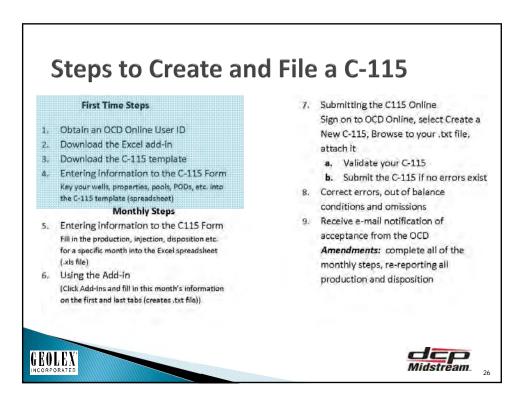


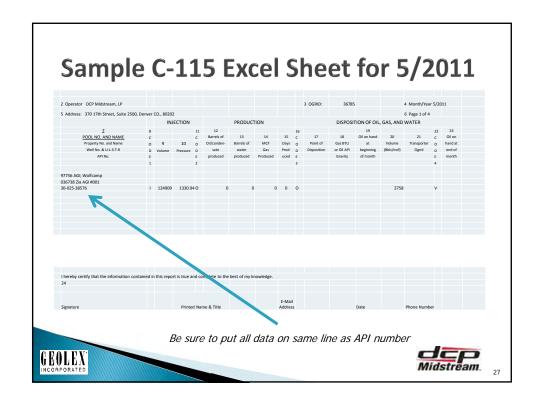


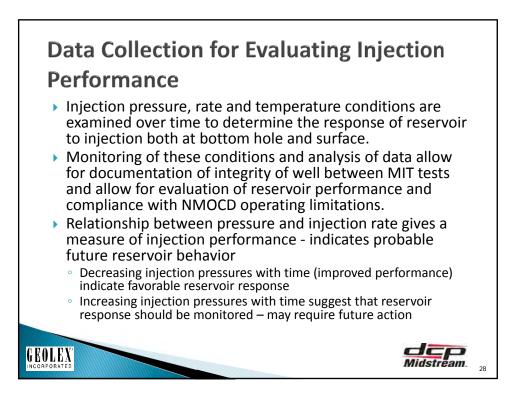


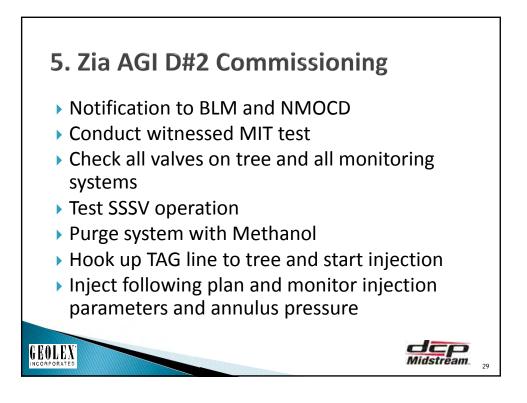


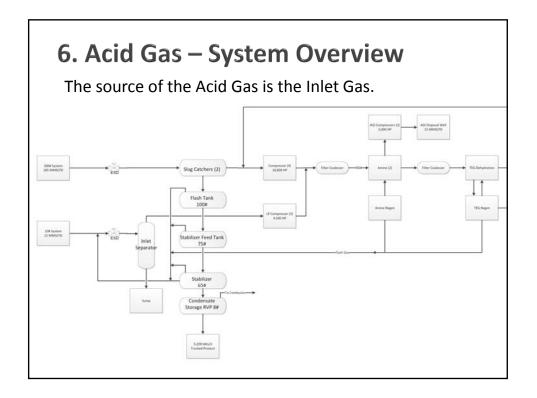


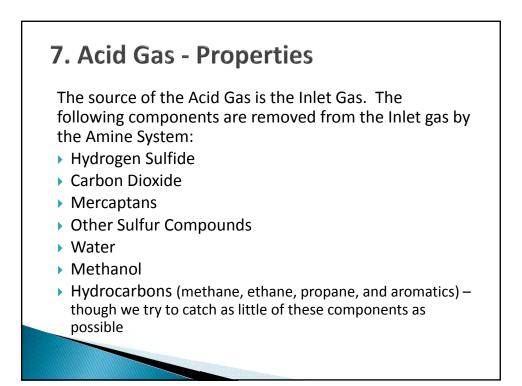






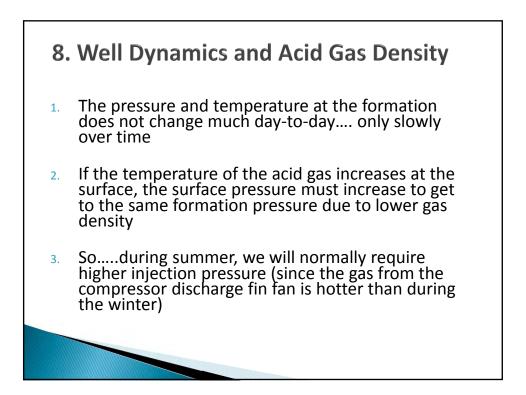




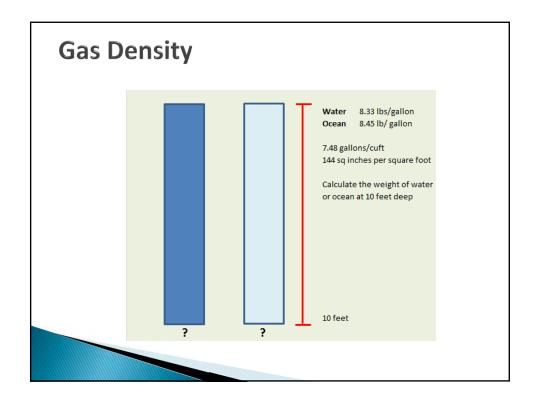


	Mole %
lydrogen Sulfide	~0 to 35
Carbon Dioxide	64 to 98
Nitrogen	0.0634
Methane	0.3553
Ethane	0.0439
Propane	0.0221
Butane	0.0057
n-Butane	0.0068
-Pentane	0.0021
1-Pentane	0.0020
Hexane	0.0058
Benzene,Toluene,Xylene (BETX)	0.0831

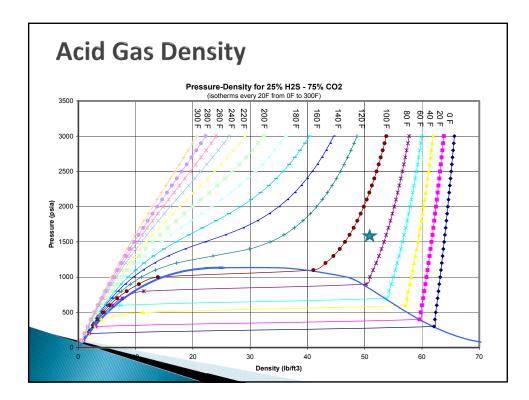
Concentration			Physical Effects
percent (%)	ppm	grains per ft ³	
0.001	10	0.65	Obvious and unpleasant odor. Safe for 8 hours exposur (PEL & TLV)
0.01	100	6.48	Kills smell in 3 to 15 minutes; may sting eyes and throat
0.02	200	12.96	Kills smell shortly; stings eyes and throat. IDLH
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; artificial respiration / oxygen must be given promptly.
0.07	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.10	1000	64.80	Unconscious at once; followed by death within minutes.

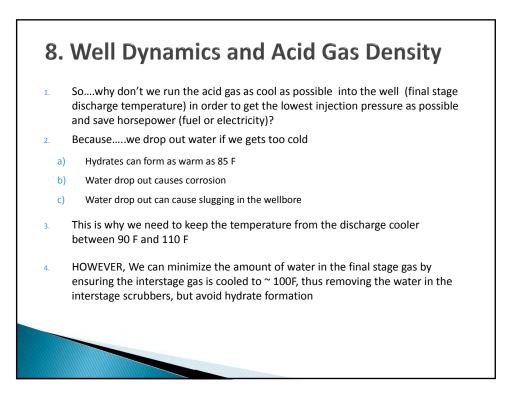


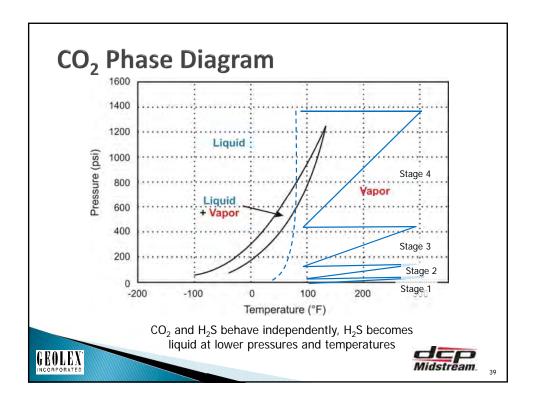
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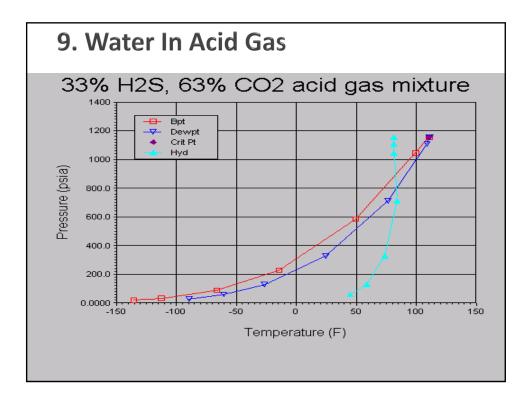


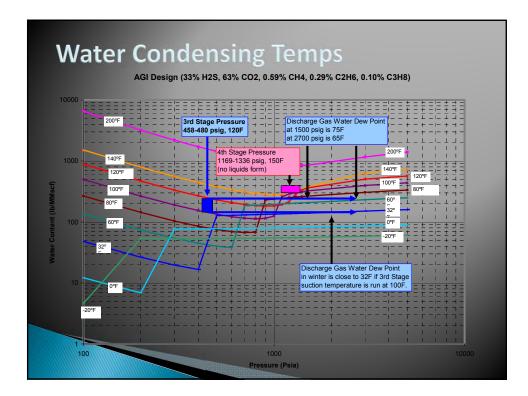
How Temperature Effects Injection Pressure 80% CO2, 12% H2S (Mw CO2 28, Mw H2S 34)					
	Case 1	Case 2			
Injection Temperature ^o F	90	100			
Pressure at Wellhead psig	1,600	1,765			
Density at Wellhead lb/cuft	48.3	45.2			
Temperature at Reservoir ⁰F	151	164			
Pressure at Reservoir psig	6,390	6,390			
Density at Reservoir Ib/cuft	56.3	54.9			





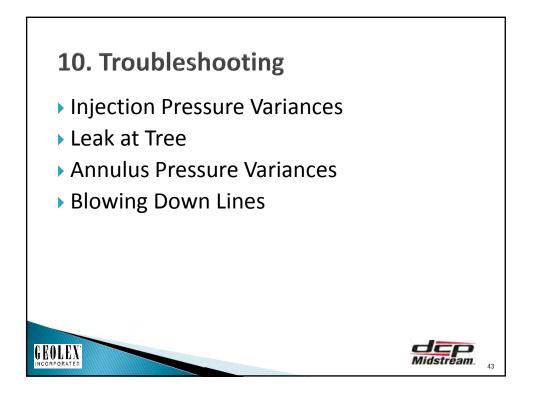


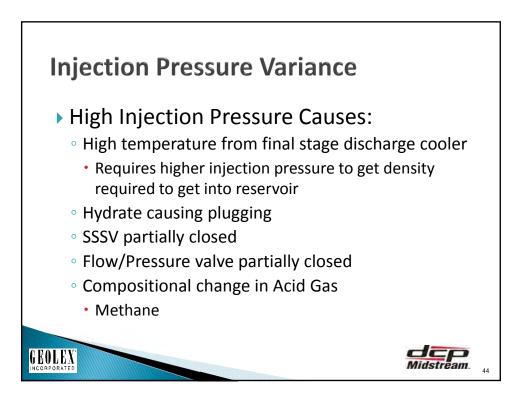


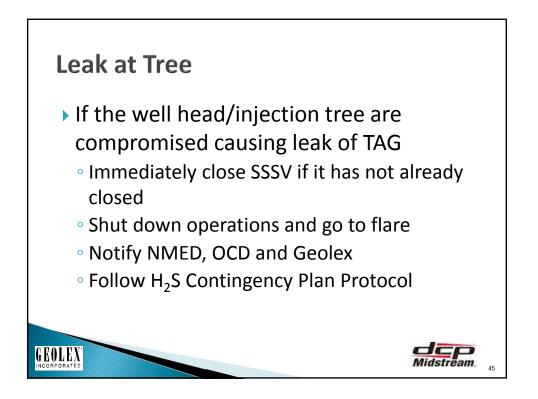


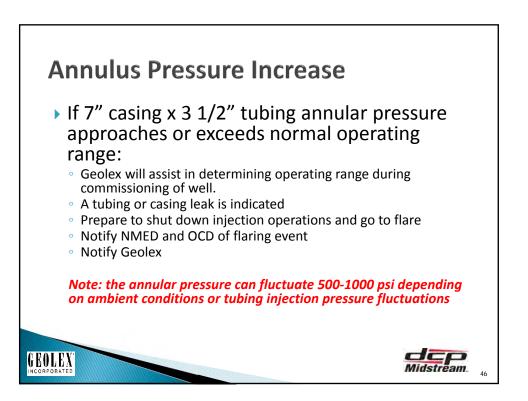
Acid Gas Density – Effect of Methane

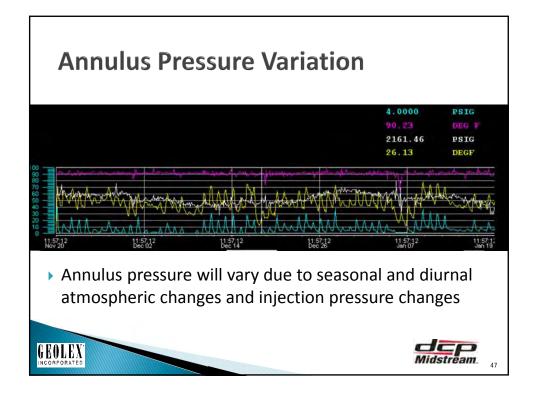
	Case 1	Case 2	Case 3
Injection Temperature ^o F	90	90	90
CO2	79	78.5	75.4
H2S	12.7	12.6	12.1
Methane	0.2	1.0	5.0
Pressure at Wellhead psig	1,600	1,650	1,87
Density at Wellhead lb/cuft	48.3	47.6	44.
Temperature at Reservoir ⁰F	151	151.5	151.2
Pressure at Reservoir psig	6,390	6,390	6,39
Density at Reservoir lb/cuft	56.3	55.8	53.3

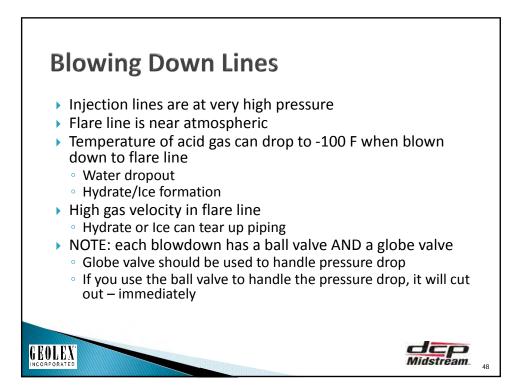


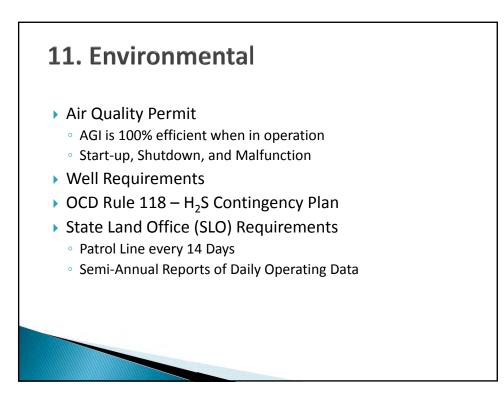


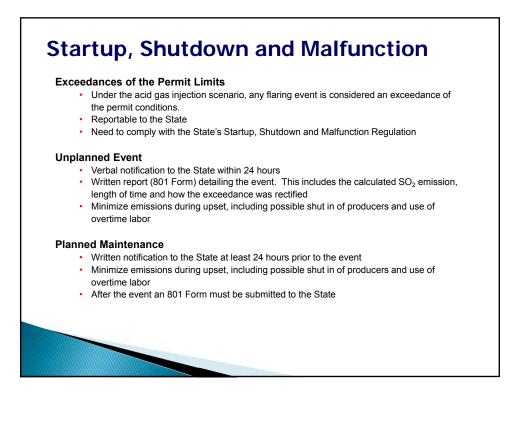


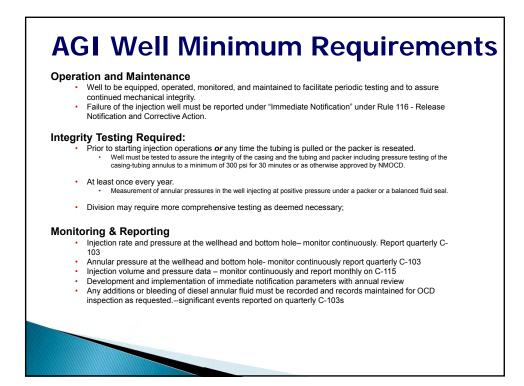












OCD Rule 11 – H₂S Contingency Plan

OCD Rule 11

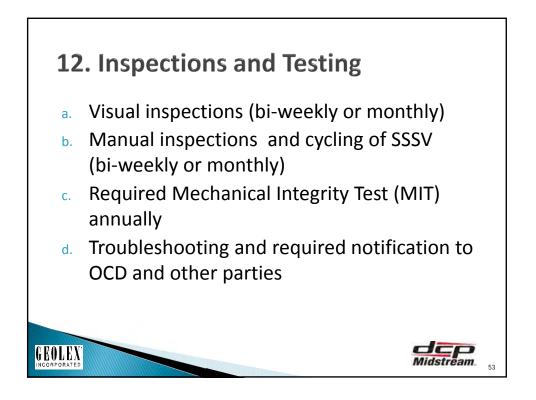
- Covers gathering, compression, and processing.
- Also covers well workovers and drilling when H₂S is expected.

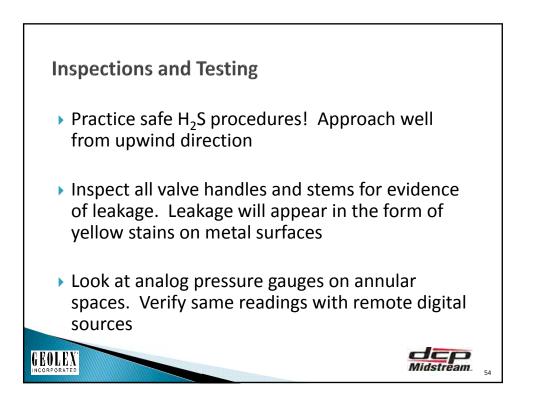
Plan Developed:

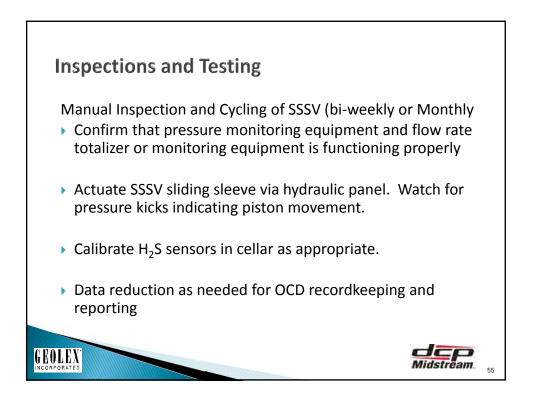
- · Includes information on Acid Gas Compressor Design, Safety Equipment, and Well
- Emergency Procedures
- Emergency Notification
 Characteristics of H₂S and SO₂
- Characteristics of H₂S and SO₂
 Maps and Drawings
- Training and Drills
- Coordination with State Emergency Plans
- Activation Levels

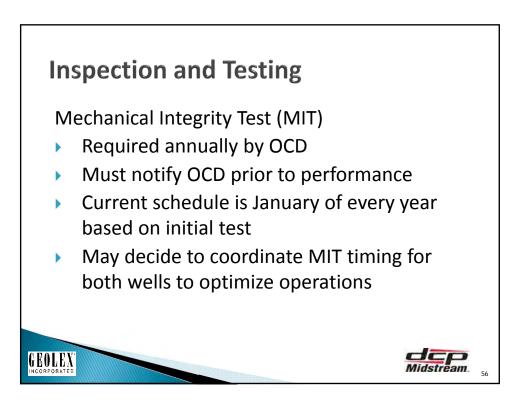
Reporting

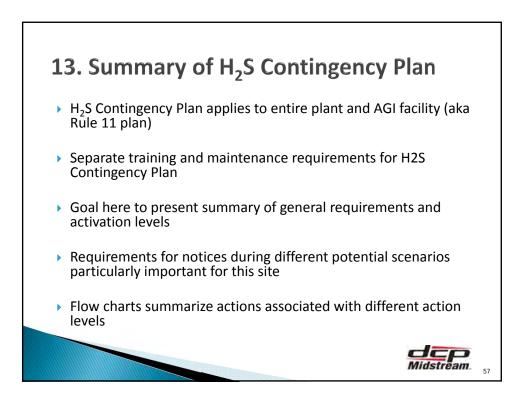
- After Plan Activation
- Notify the Division As Soon as Possible, but within 4 hours
- Full Report (Form C-141) within 15 days

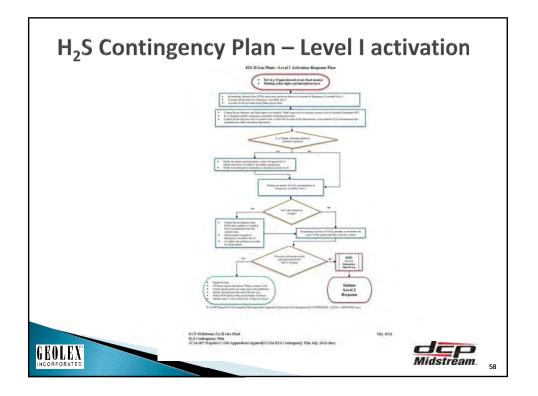


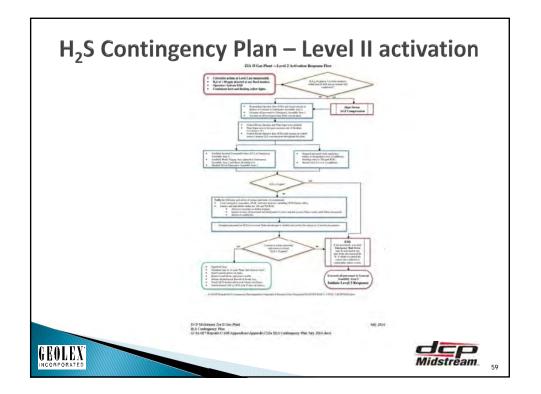


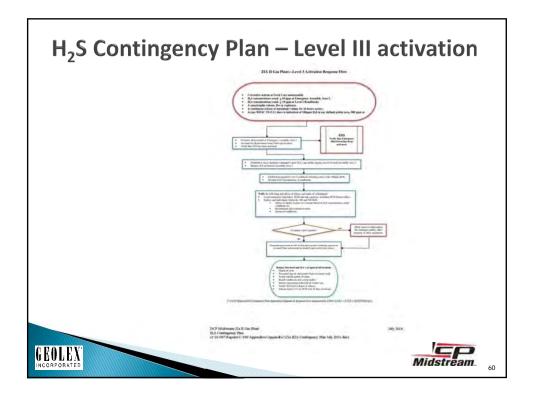
















ZIA AGI #1 AND D #2 ROUTINE MAINTENANCE TO BE PERFORMED DURING WELL OPERATION (No need to shut down or interrupt injection operations)

- Monthly maintenance on the SSSV following the procedure in the operations manual (See backside of this page)
- Keep the cellar as dry as possible check monthly
- Inspect the well tree monthly and keep the paint fresh especially in the cellar
- Visually inspect Hydraulic Control Panel check monthly. Inspect all valve grease fittings and maintain as necessary
- Check gauges on Bradenhead and Intermediate casing(s) check weekly. The pressures should all be at or near zero psig and if they are not should be vented (there will be some positive pressure on recently completed wells from vapors related to curing cement). As long as each annulus can be vented to zero psig within a few seconds, or minutes, they will remain in regulatory compliance (the Bradenhead and intermediate casing(s) should all have 30 psig gauges)
- Try to keep backside annular pressure between 300 and 600 psig
- If it becomes necessary to bleed down backside annular pressure it must be done slowly and do not bleed below 200 psig
- If it becomes necessary to add fluid to the backside annulus make sure to bleed out all air pockets and keep the pressure between 300 and 600 psig
- Keep records for all fluids added to or removed from the backside annulus this is required by NMOCC order and must be available for inspection on demand
- Have all tree valves serviced and lubricated. This may require opening and closing each valve a few times as you lubricate. This does not require killing the well but may require flaring for an hour or so. This should be done every six (6) months.

VALVE MAINTENANCE WHEN AGI WELL IS OFFLINE AND NOT INJECTING

• When the AGI is offline, open and close all valves on well tree several times to make sure all are in good operating condition and record status, grease or repair as needed—see below.

MAINTENANCE DURING PLANT TURN AROUND

- Call GE (Wood Group) to conduct inspection of tree and perform PM.
- Have all valve grease fittings serviced.
- Have all valves serviced.
- Clean and paint entire tree. Do not paint over any grease fittings.
- Every five (5) years plus/minus have manufacturer inspect the tree and if maintenance is recommended kill the well and dismantle the tree and have components refurbished or replaced.
- Sample and analyze the backside annular fluid and add corrosion inhibitors and biocides as needed.

SEE BACK OF THIS SHEET FOR SSSV MAINTENANCE INSTRUCTIONS AND LIST OF EMERGENCY AND CONTRACTOR CONTACTS





MANUAL OPERATIONAL CHECK FOR SUBSURFACE SAFETY VALVE

The Subsurface Safety Valve (SSSV) should be cycled (activated) roughly once a month to prevent scale build-up on the SSSV and to check performance.

- Go to wellhead and manually open Wing Valve (WV) to hold valve in full open position (piston fully depressed into valve). Important: If this step is not taken first, the Wing Valve (WV) will shut and cause interruption of acid gas injection and emergency shutdown of compressor due to over-pressuring.
- 2) Turn the In-service/Bypass/Wing Valve (WV) switch to Bypass.
- 3) Push in the red ESD/TSE plunger and wait ~90 seconds until the SSSV closes (output pressure goes to 0 PSI). The black plunger which controls the wing valve will also depress automatically.
- 4) Pull out and hold the red ESD/TSE plunger for several seconds. Watch the SSSV output pressure and make certain that the pressure bobbles (rises and falls) at ~2000 PSI before climbing to the set pressure. If the pressure does not bobble, it may mean the sleeve has become stuck in the up position. Repeat the process. Pull out and hold the black plunger to place the wing valve in the normal operations position.
- 5) Return the In-service/Bypass/Wing Valve (WV) handle to the In-service position.
- 6) Go to wellhead and manually close Wing Valve (WV) and verify that piston remains in full open position (piston fully depressed into valve) when manual valve is fully unscrewed to beyond close position. Verify that piston remains fully depressed into Wing Valve (WV) for at least two (2) minutes and that output pressure to Wing Valve (WV) is within range as measured on hydraulic control panel.

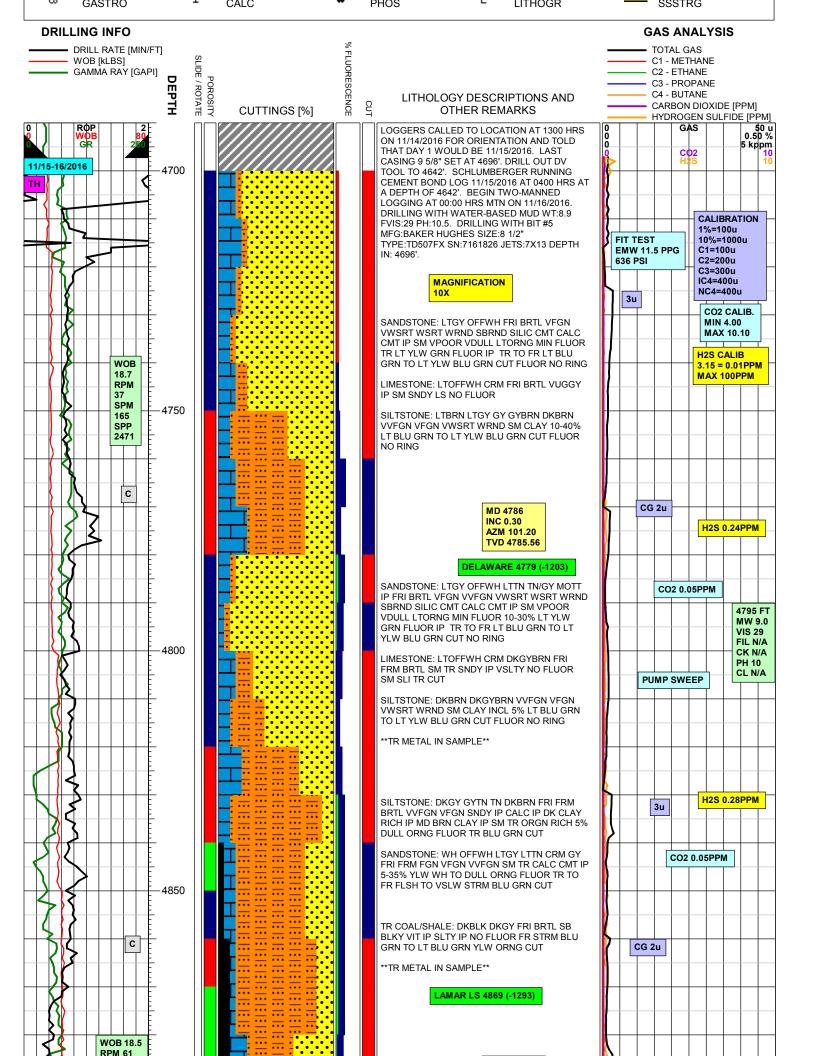
Contact	Position/Primary Contact	Office	Cell
DCP Contacts			
Rachael Henry	EHS Manager	432-620-4009	
Tony Canfield	Project Engineering Mgr	432-620-5422	432-425-4875
Heath Kingham	DCP Zia Plant Mgr	575-973-7313	575-706-6983
Primary Contractor			
Geolex, Inc.	Alberto A. Gutierrez	505-842-8000	505-259-4283
	Jared R. Smith	505-842-8000	405-659-0285
Equipment Vendors			
Halliburton Completion	HCT Completion Manager	970-523-3600	
Tools (SSSV)			
RSI Global	Louis Lesage	504-340-1992	
(Hydraulic Safety Panel)			
Wood Group	Jonathon Breaux	713-876-4586	
(Wellhead, Christmas Tree)			

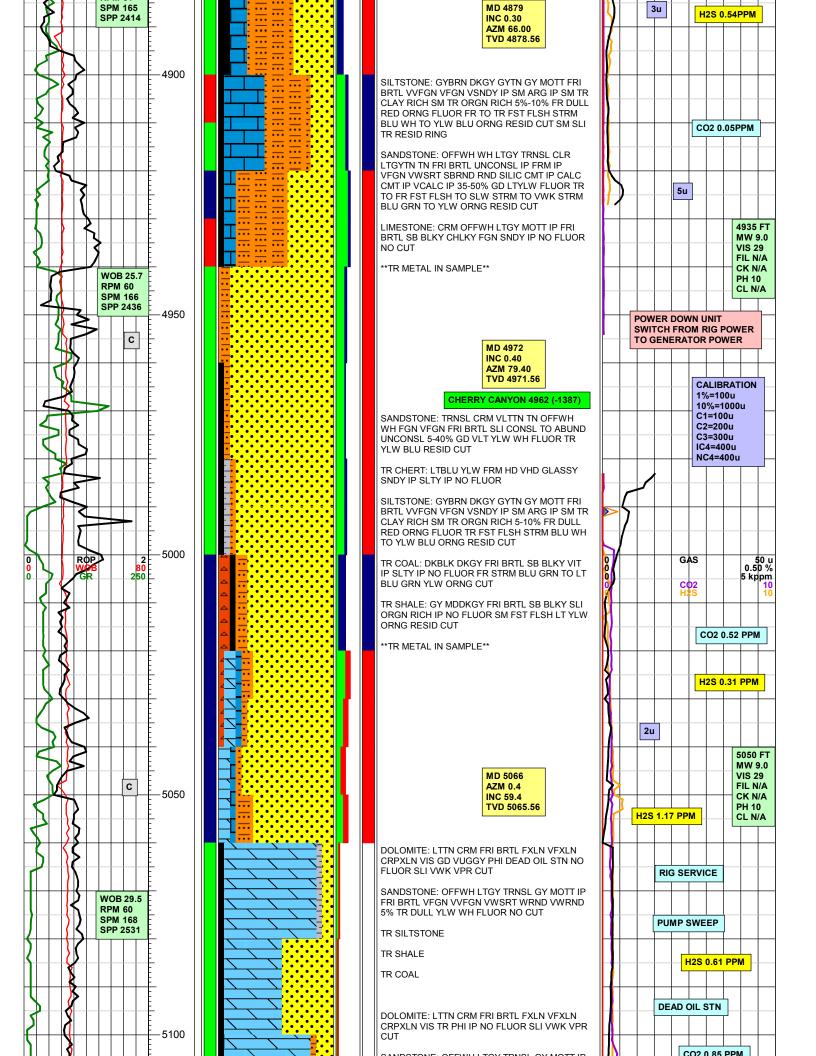
EMERGENCY AND CONTRACTOR CONTACTS

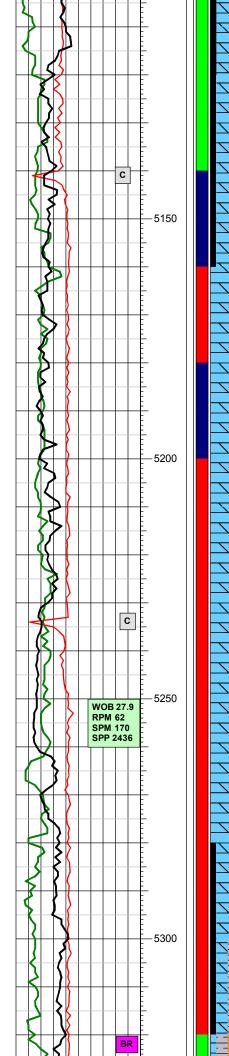
APPENDIX H

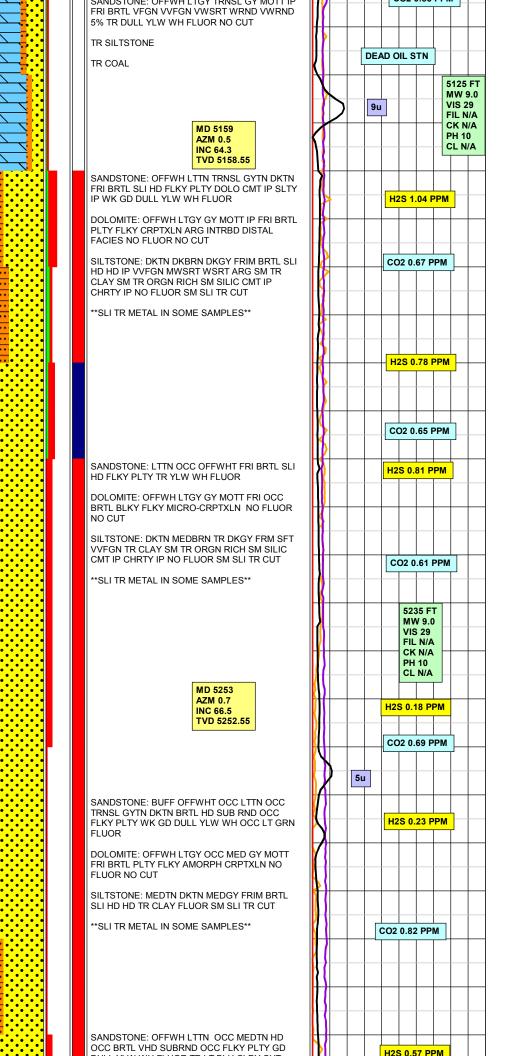
MUD LOGS

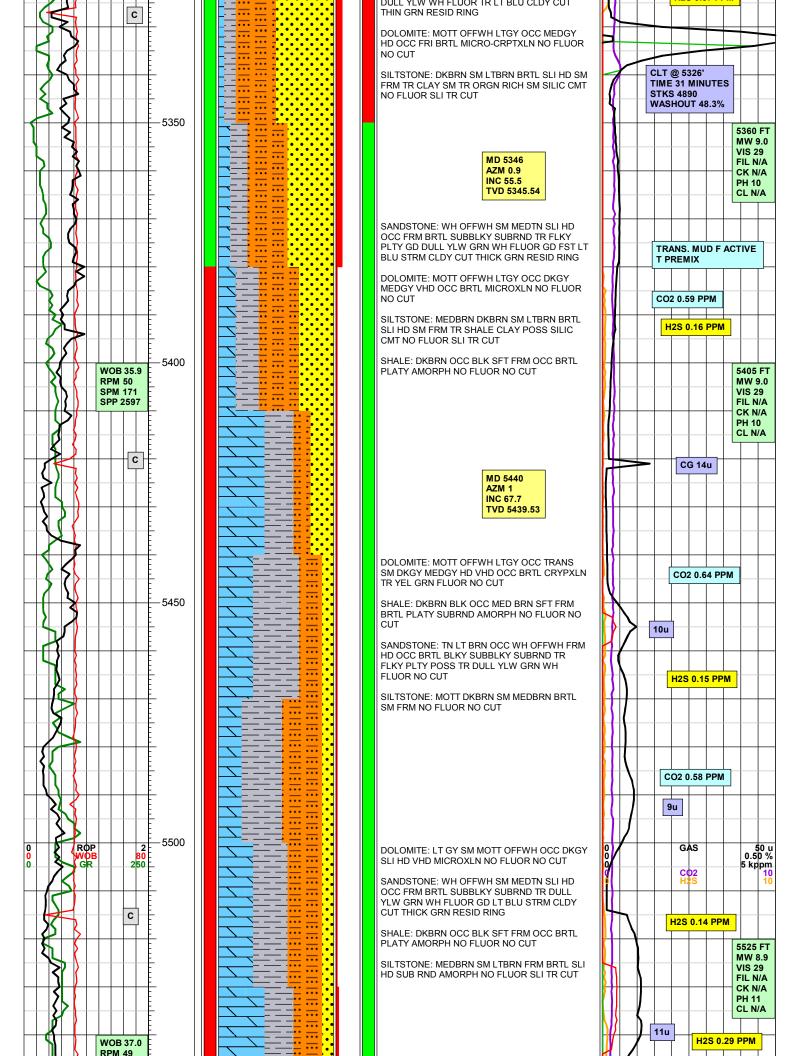
WELL: ZIA AGI D2 RIG #: FREEDOM FIELD: AG; DEVONIAN EXPL. API: 30-425-42207 LOGATION: 1983' FSL & 960' FWL, SEC. 19, T-19-S, R-32-E GL (FT): 3448 COUNTY: LEA STATE: NEW MEXICO LAT: 32.643961 DF (FT): 3975 INTERVAL: 4700' TO: 14750' LONG: -103.81116 KB (FT): JACE LOGGER(S): TYLER HARGROVE BEN RICHARDS VINIT #: 59 JUNITE SAL2-557.0051 LOGGER(S): TYLER HARGROVE BEN RICHARDS VINIT #: 59.770-6505, 432-557.0051 JUNITE SAL7 SAL5 MORE CALCITE CONGLOMERATE DOLOMITE LIMESTONE SAL7 SAND CALCITE CONGLOMERATE GRANITE SAL7 SAND CEMENT NONE TRACE FALR GOD CEMENT SAL7 MICROXLN ALGAE OUTTE CARB P PYR MX MICROXLN ALGAE OUTTE CARB P PYR MX MICROXLN ALGAE OUTTE	C					
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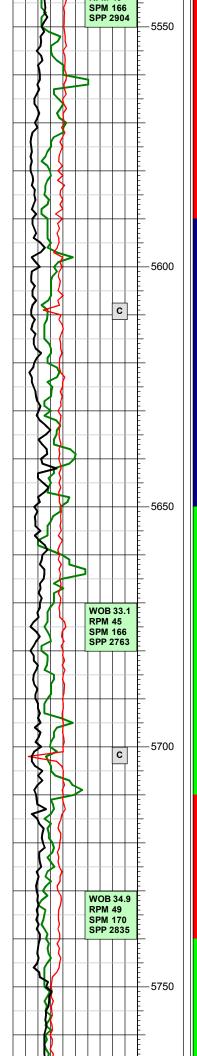










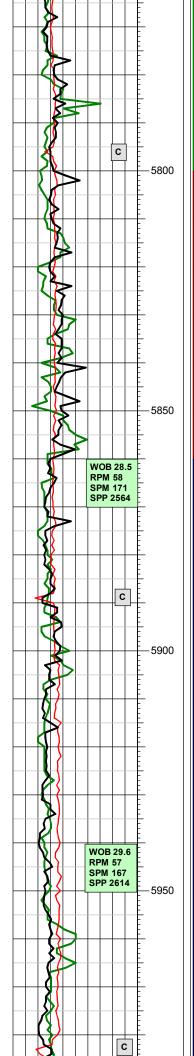


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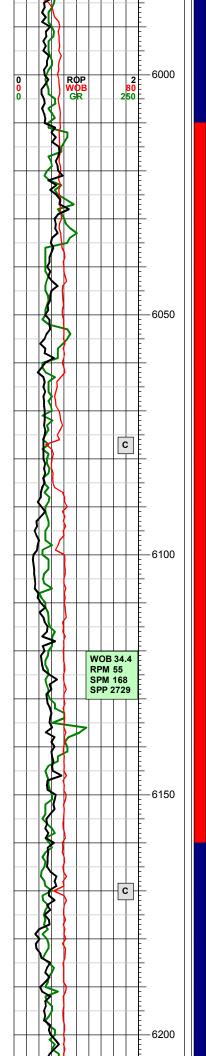
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DOLOMITE: MOTT OFFWH SM LTGY SM DKGY MEDGY VHD BRTL CRYPTO MICROXLN TR YEL GRN FLUOR NO CUT	H2S 0.22 PPM
SANDSTONE: OFFWH SM LTTN FRM HD OCC BRTL SUBBLKY SUBRNDTR DULL YLW GRN WH FLUOR MOD GD FST LT BLU STRM CLDY CUT THICK GRN RESID RING	
SILTSTONE: MEDBRN DKBRN SM LTBRN BRTL SLI HD SM FRM TR SHALE CLAY POSS SILIC CMT NO FLUOR NO CUT	CO2 0.49 PPM
SHALE: BLK DKBRN OCC MED BRN SFT FRM SM FRI PLATY SM AMORPH NO FLUOR NO CUT	
	H2S 0.12 PPM
MD 5627 AZM 2 INC 50.7 TVD 5626.46	CG 3u
DOLOMITE: OFFWH SM LTGY SM MEDGY OC TRANS HD BRTL CRYPTO MICROXLN POSS TR VUG POR TR YEL GRN FLUOR NO CUT BRUSHY CANYON 5631 (-2056)	CO2 0.48 PPM
SANDSTONE: OFFWH TR LTTN SLI HD SM FRM BRTL SUBBLKY TR DULL LT YLW GRN FLUOR NO CUT	
SILTSTONE: MEDBRN BRTL SLI HD SM FRM SUB RND AMORPH POSS SILIC CMT NO FLUOR NO CUT	
SHALE: BLK DKBRN OCC MED BRN SFT FRM SM FRI PLATY SM AMORPH NO FLUOR NO CUT	
	H2S 0.14 PPM
DOLOMITE: MOTT OFFWH OCC DKGY HD BRTL CRYPTO MICROXLN NO FLUOR NO CUT THIN GRN RESID RING	CO2 0.50 PPM
SANDSTONE: OFFWH LTTN FRM HD OCC BRTL SUBBLKY SUBRND TR DULL YLW GRN WH FLUOR TR LT BLU CLDY CUT	
SILTSTONE: MEDBRN BRTL SLI HD SM FRM POSS SILIC CMT NO FLUOR NO CUT	94
SHALE: BLK DKBRN OCC MED BRN SFT FRM SM FRI PLATY SM AMORPH NO FLUOR NO CUT **EXTENSIVE DRILLING ADDITIVE CONTENT IN	5715 FT
SOME SAMPLES**	MW 8.9 VIS 29 FIL N/A CK N/A PH 10.5
MD 5720 AZM 2.0 INC 50.3 TVD 5719.4	CO2 0.51 PPM
SANDSTONE: OFFWH OCC LTTN FRM HD SM BRTL RND SUBRND AMORPH TR DULL YLW GRN WH FLUOR TR CLDY LT BLU CUT TR LT GRN RESID RING	
DOLOMITE: MOTT OFFWH LTGY TR DKGY SLI HD BRTL CRYPTO POSS TR VUG POR TR YEL GRN FLUOR NO CUT	H2S 0.26 PPM
SILTSTONE: LTBRN MEDBRN BRTL SLI HD FRM NO FLUOR NO CUT	

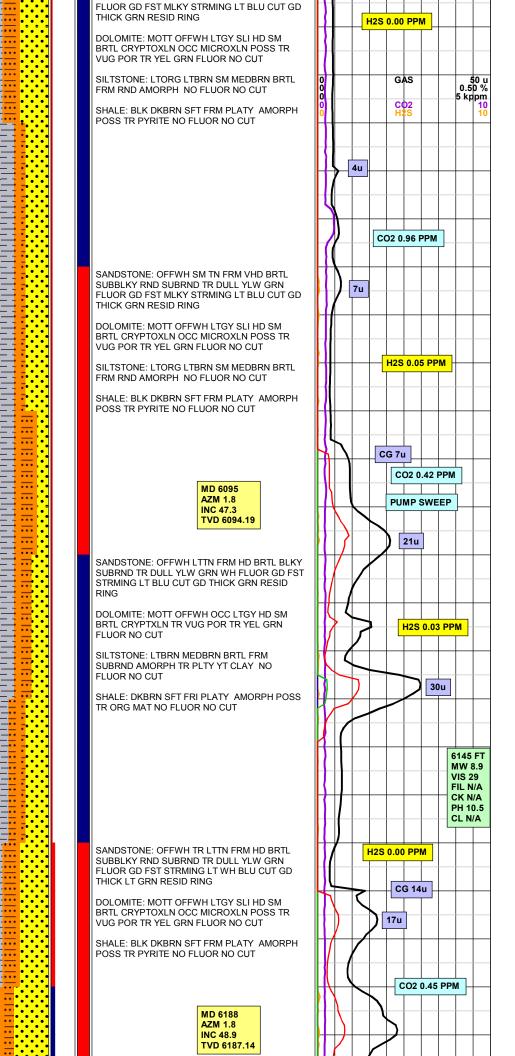


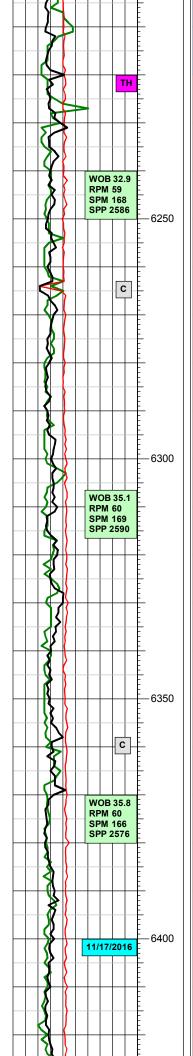
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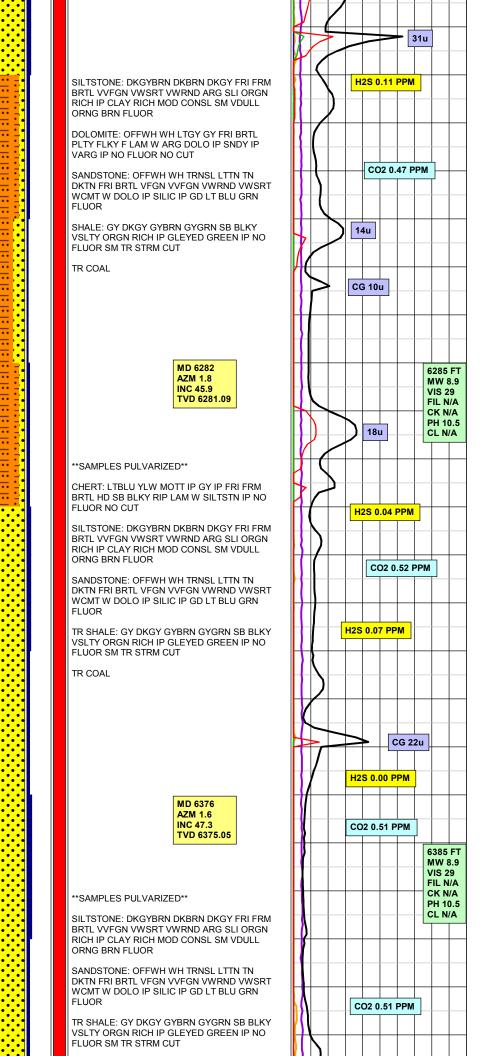
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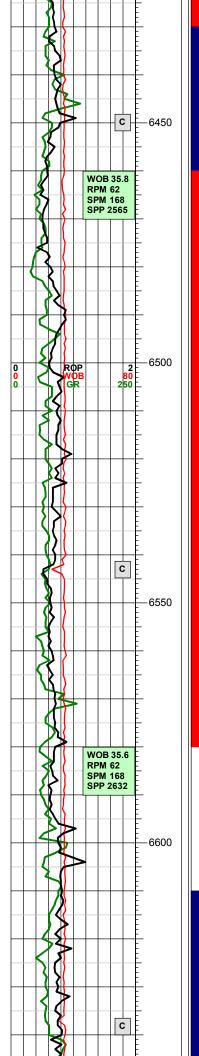
	SHALE: BLK DKBRN SFT FRM FRI PLATY AMORPH NO FLUOR NO CUT					
	**EXTENSIVE DRILLING ADDITIVE CONTENT IN SOME SAMPLES **	Щ				
		\mathbb{H})	CO2	0.51 PPM	
	MD 5813					
	AZM 2.1 INC 55.7 TVD 5812.34	ĮĮ	> (CG 6u		
	SANDSTONE: OFFWH OCC LTGY SLI HD SM	Н				
	BRTL SUBRND AMORPH TR DULL YLW GRN WH FLUOR FR MOD LT BLU STRMING CLDY CUT FR THICK GRN RESID RING)	H2	<mark>S 0.00 PPN</mark>	<u>n</u>
	DOLOMITE: MOTT OFFWH MEDGY TR DKGY HD BRTL CRYPTO POSS TR VUG POR TR YEL GRN WHT FLUOR NO CUT			PUM	P SWEEP	5815 FT MW 8.9 VIS 29 FIL N/A
	SILTSTONE: MED BRN SFT BRTL FRM SUB RND NO FLUOR NO CUT					CK N/A PH 10.5 CL N/A
	SHALE: BLK DKBRN SFT FRM SM FRI PLATY AMORPH NO FLUOR NO CUT					
		\mathbb{H}				
		H	5	8u		
			4			
		H		H2	S 0.00 PPN	<u>Λ</u>
	SANDSTONE: OFFWH OCC LTTN FRM HD SM	\mathbb{H}				
	BRTL RND SUBRND AMORPH TR DULL YLW GRN WH FLUOR GD STRMING CLDY LT BLU CUT GD THICK GRN RESID RING			co	02 0.45 PPN	
	DOLOMITE: MOTT OFFWH LTGY TR DKGY SLI HD BRTL CRYPTO POSS TR VUG POR GD YEL					
	GRN FLUOR NO CUT SILTSTONE: LTBRN MEDBRN BRTL SLI HD FRM					
	NO FLUOR NO CUT SHALE: BLK DKBRN SFT FRM FRI PLATY		7	CG	7u	
	AMORPH NO FLUOR NO CUT	$\left \right $	/			
	MD 5907	H		H2S	5 0.00 PPM	
	AZM 2.0 INC 53.1 TVD 5906.28					┦╷╽┙
		\mathbb{H}				5915 FT MW 8.9 VIS 29 FIL N/A
	SANDSTONE: WH OFF WH TR LTTN SLI HD BRTL SUBBLKY SUBRND TR DULL YLW GRN WH FLUOR TR STRMING CLDY LT BLU CUT FR					CK N/A PH 10.5 CL N/A
	THIN GRN RESID RING DOLOMITE: MOTT OFFWH LTGY MEDGY VHD BRTL CRYPTO POSS TR VUG POR GD YEL GRN FLUOR NO CUT			CO	02 0.45 PPM	
	SILTSTONE: LTBRN TR MEDBRN SFT FRM BRTL RND OCC PLTY AMORPH NO FLUOR NO CUT	$\left \right $				
	SHALE: DKBRN SM BLK SFT FRM PLTY OCC FRI RND AMORPH NO FLUOR NO CUT					
	EXTENSIVE MUD ADDITIVE CONTENT		\int			
		\mathbb{H}				
	MD 6001 AZM 1.8 INC 52 TVD 6000.23					
	SANDSTONE: OFFWH SM TN FRM VHD BRTL SUBBLKY RND SUBRND TR DULL YLW GRN			co	2 0.45 PPM	

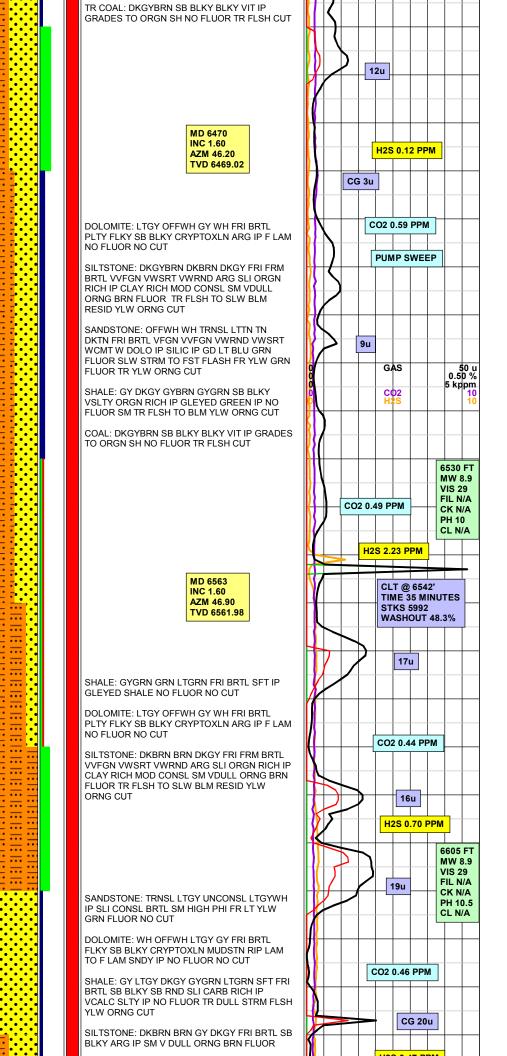


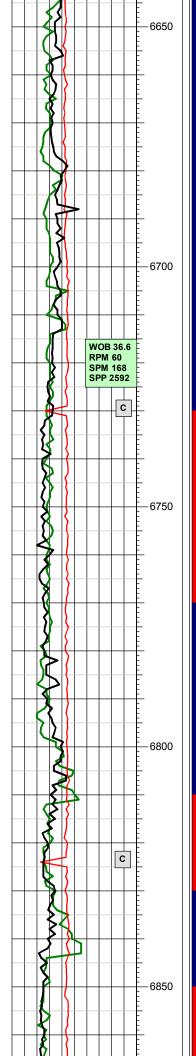












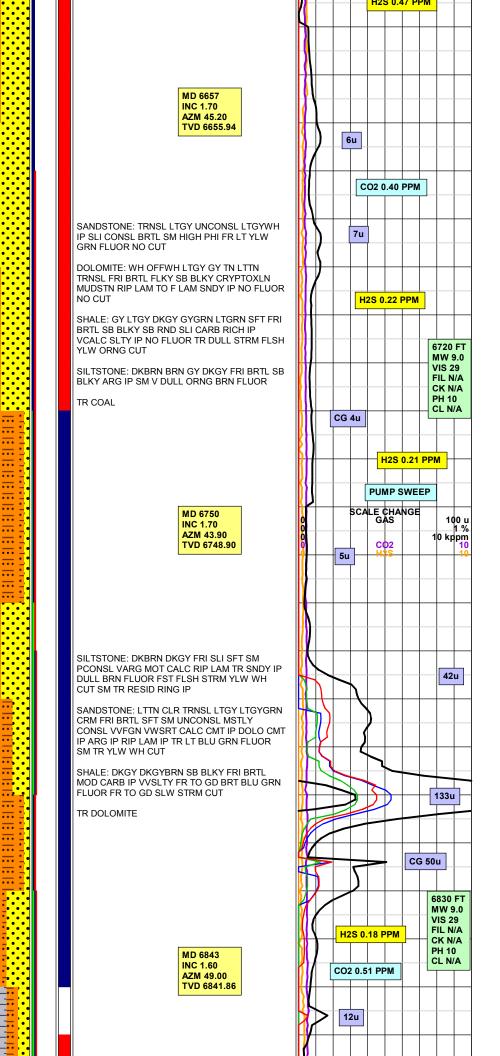
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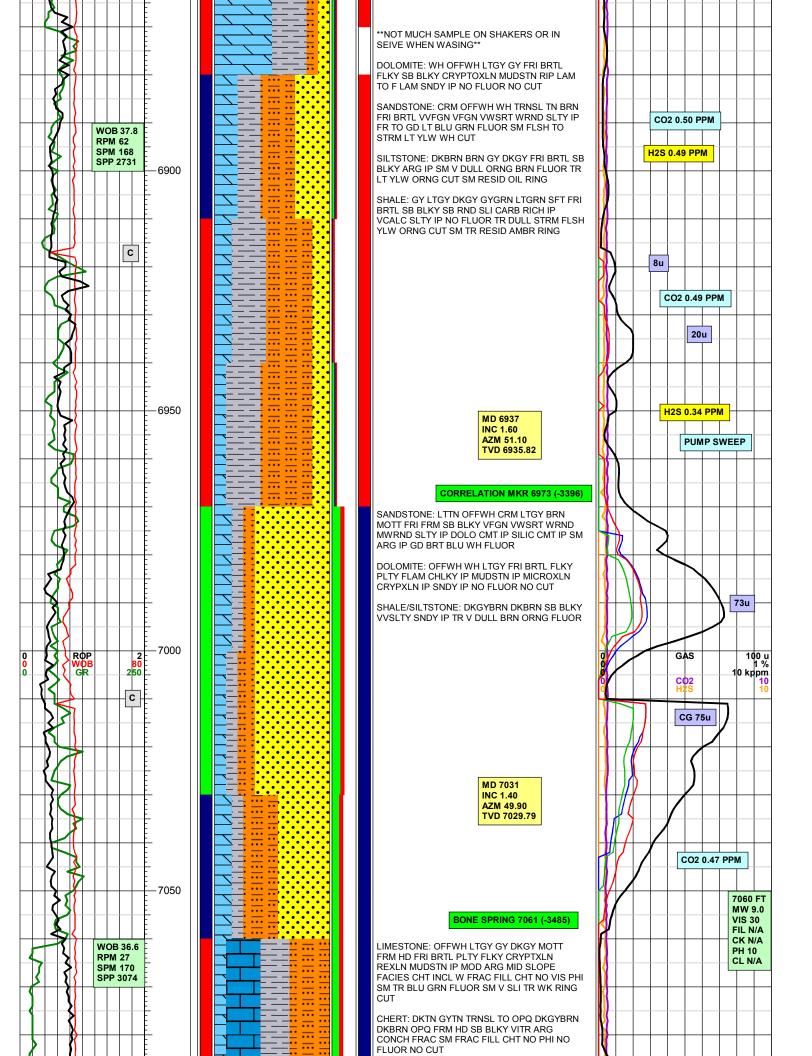
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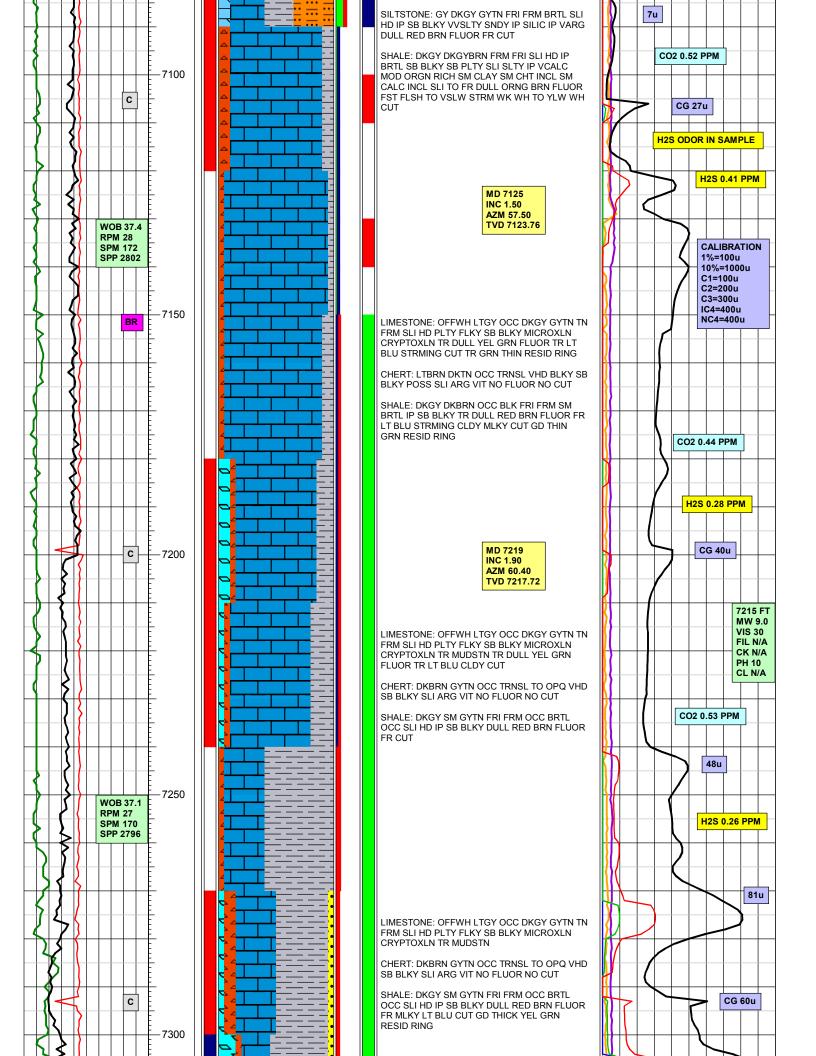
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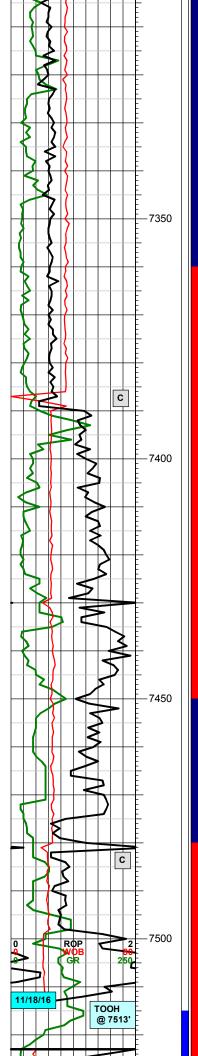
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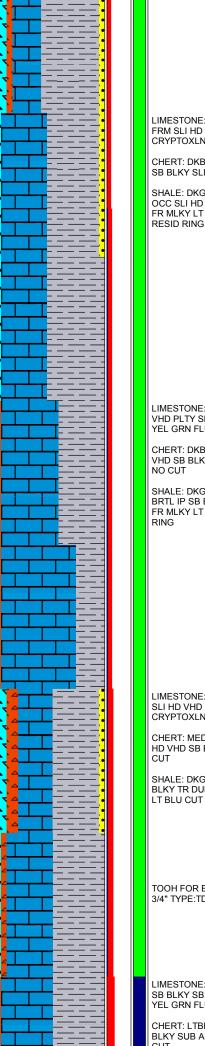
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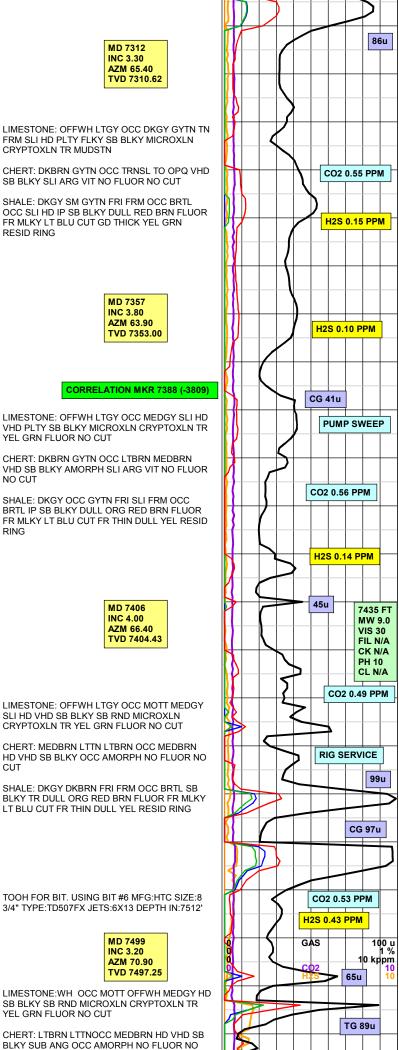


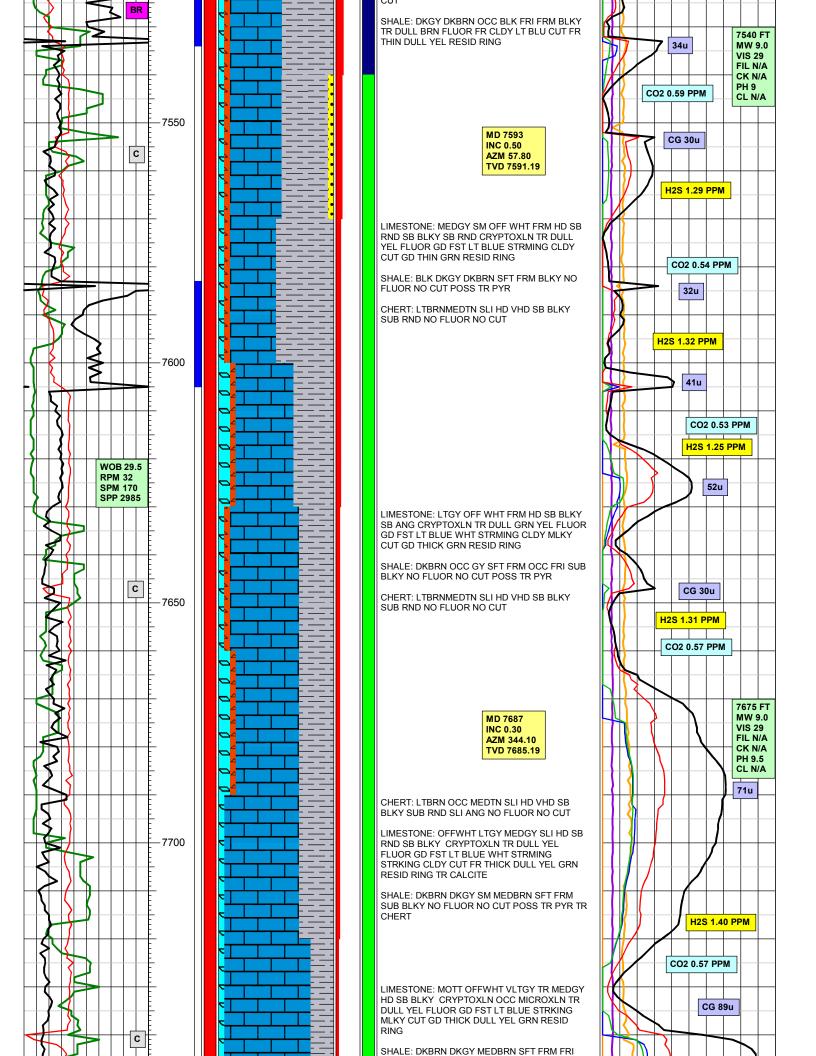


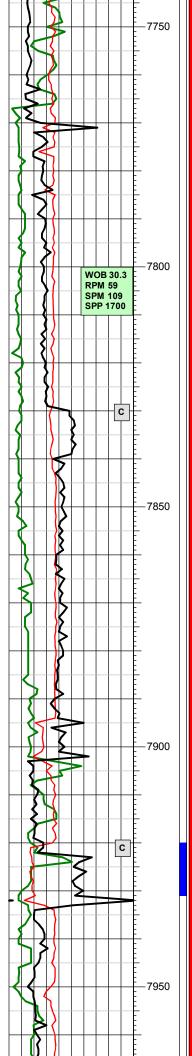


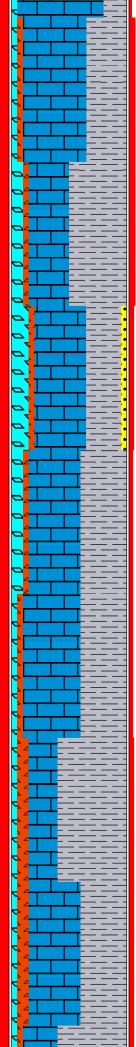


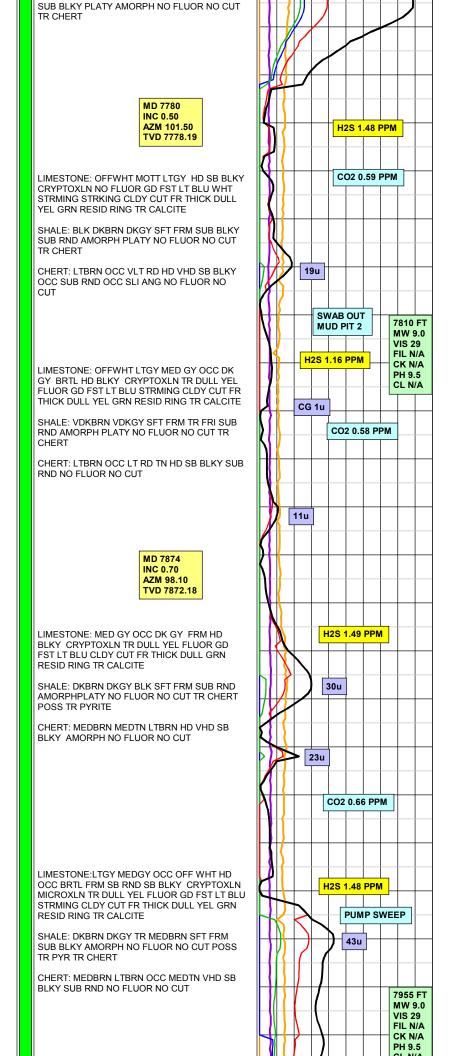
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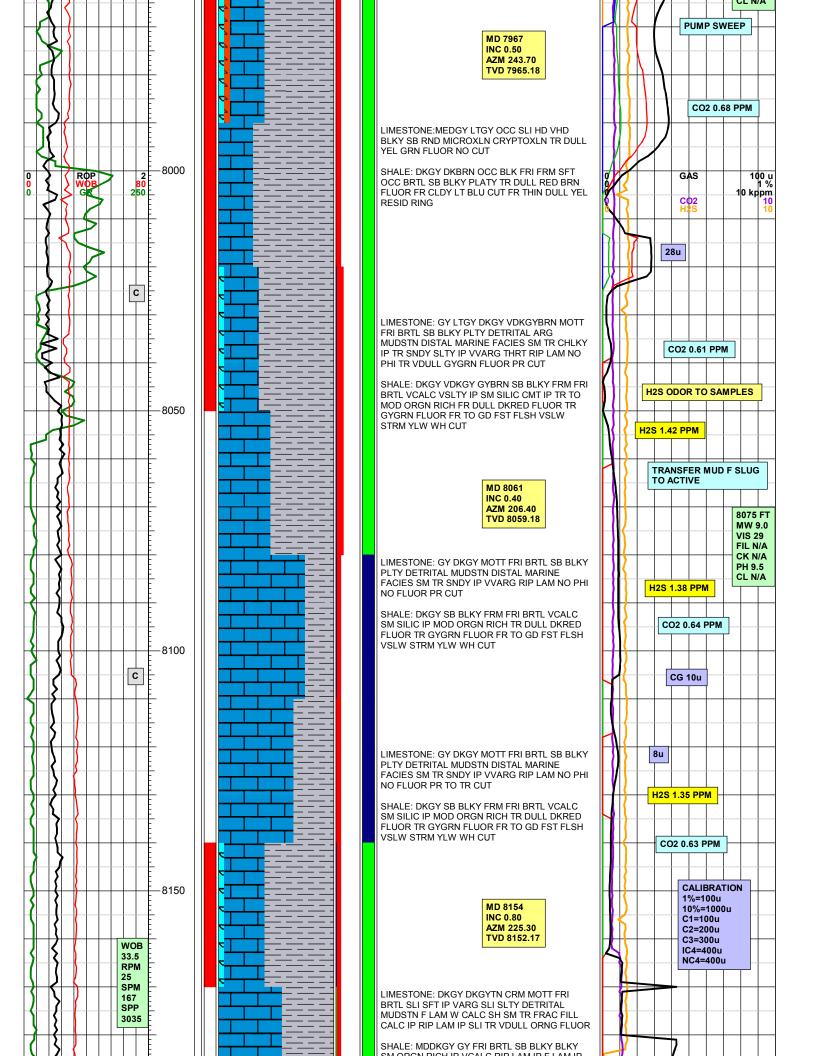


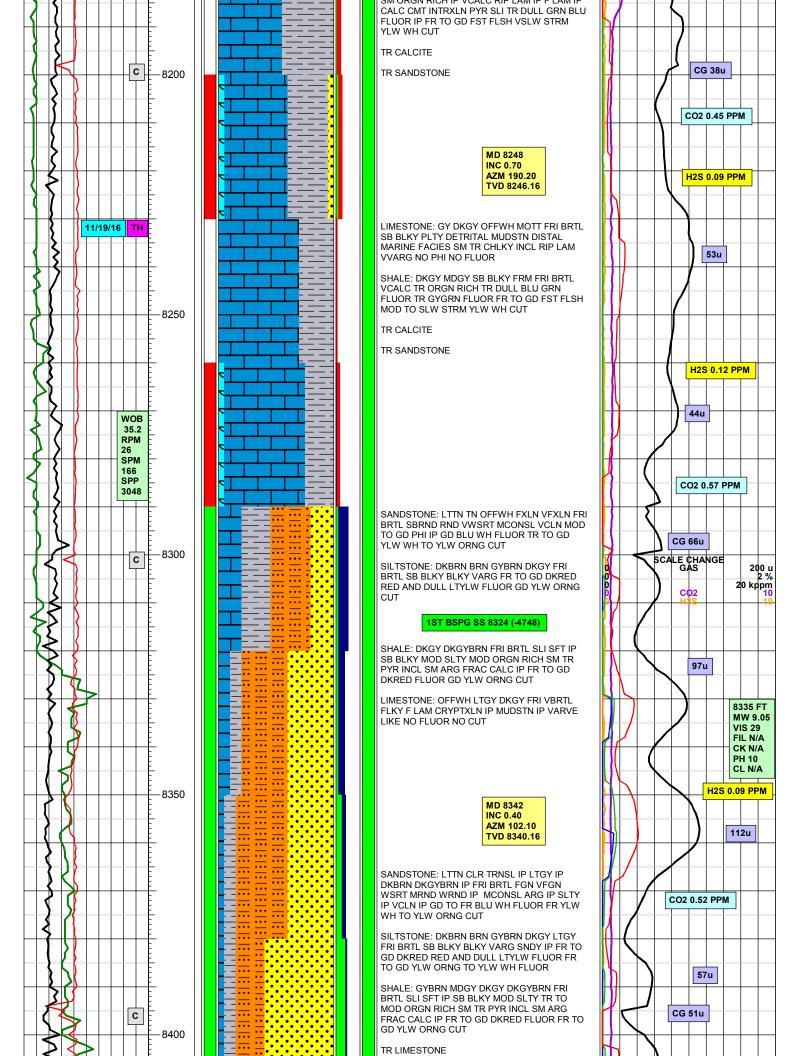


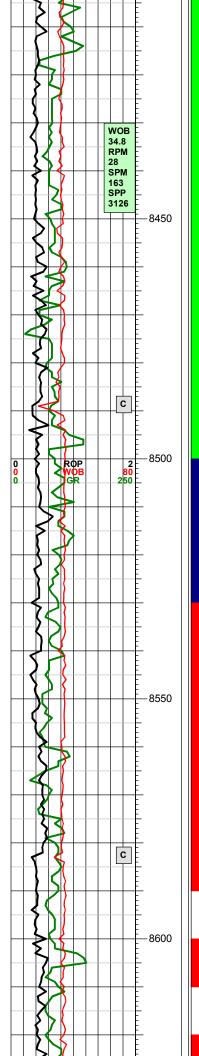












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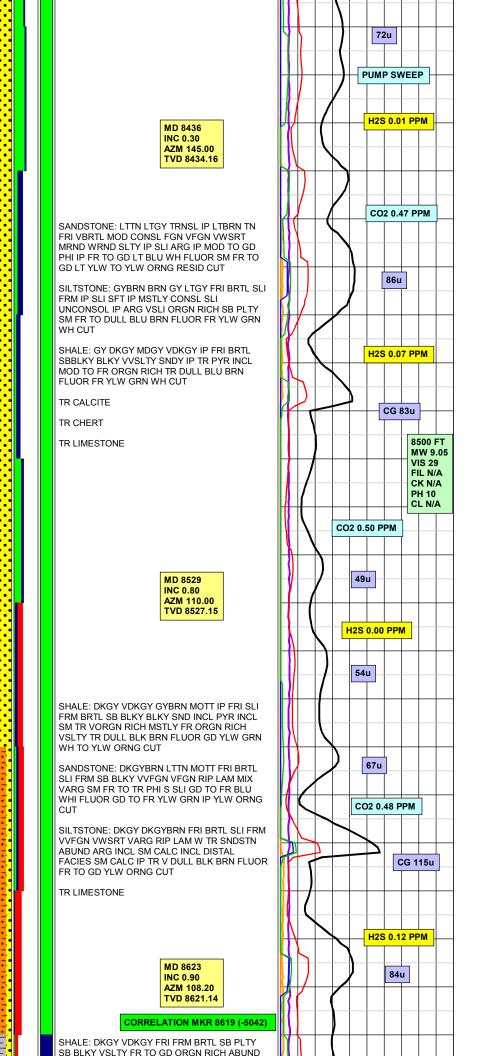
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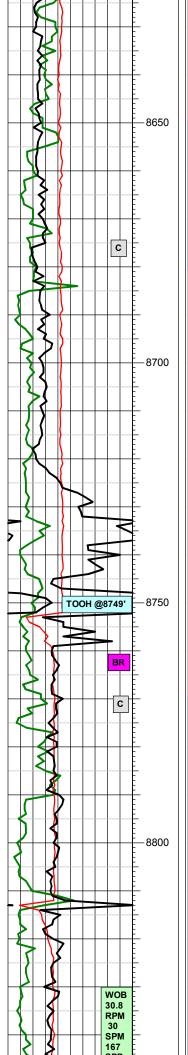
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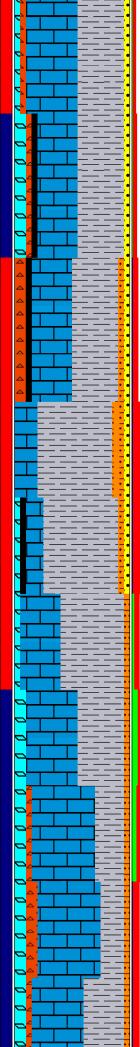
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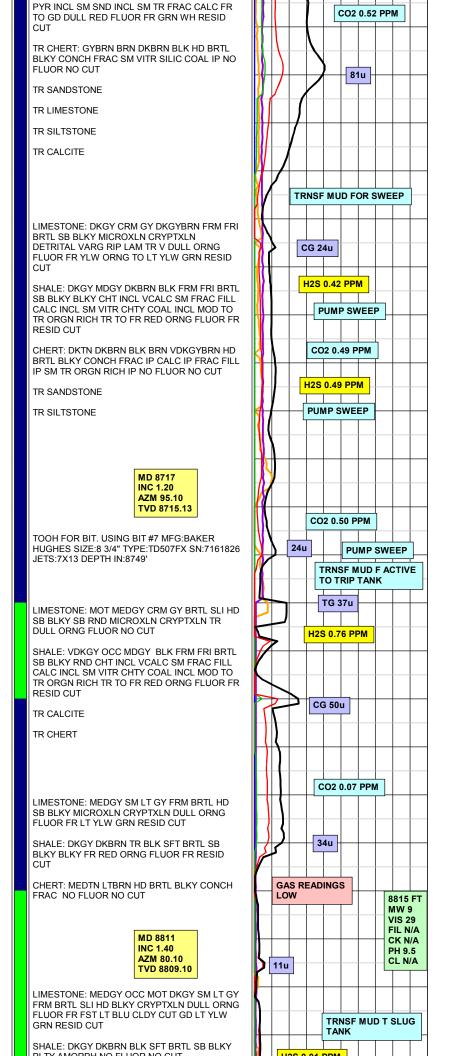
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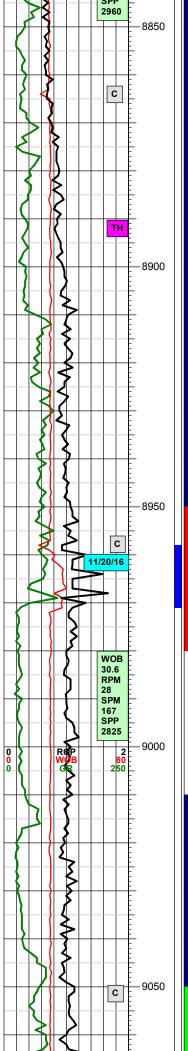
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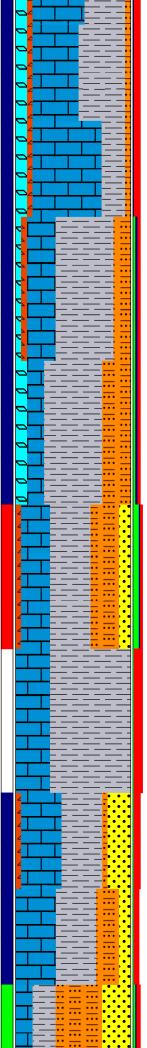


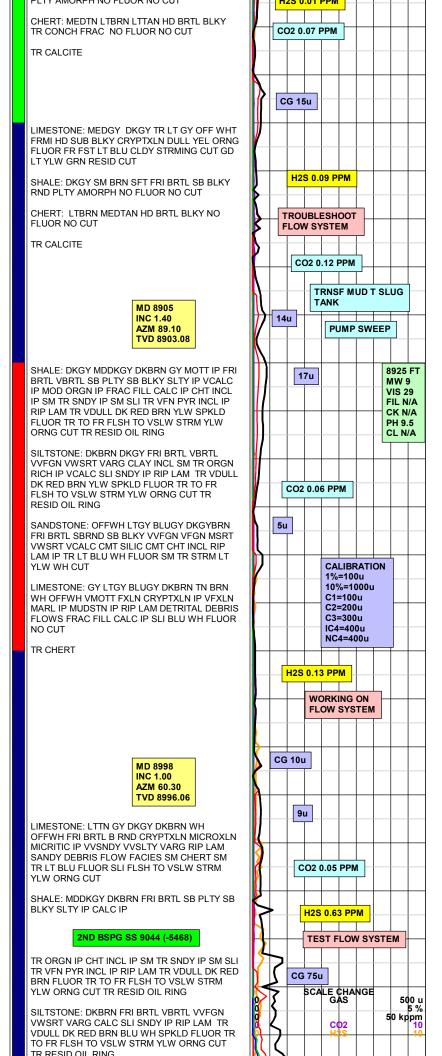


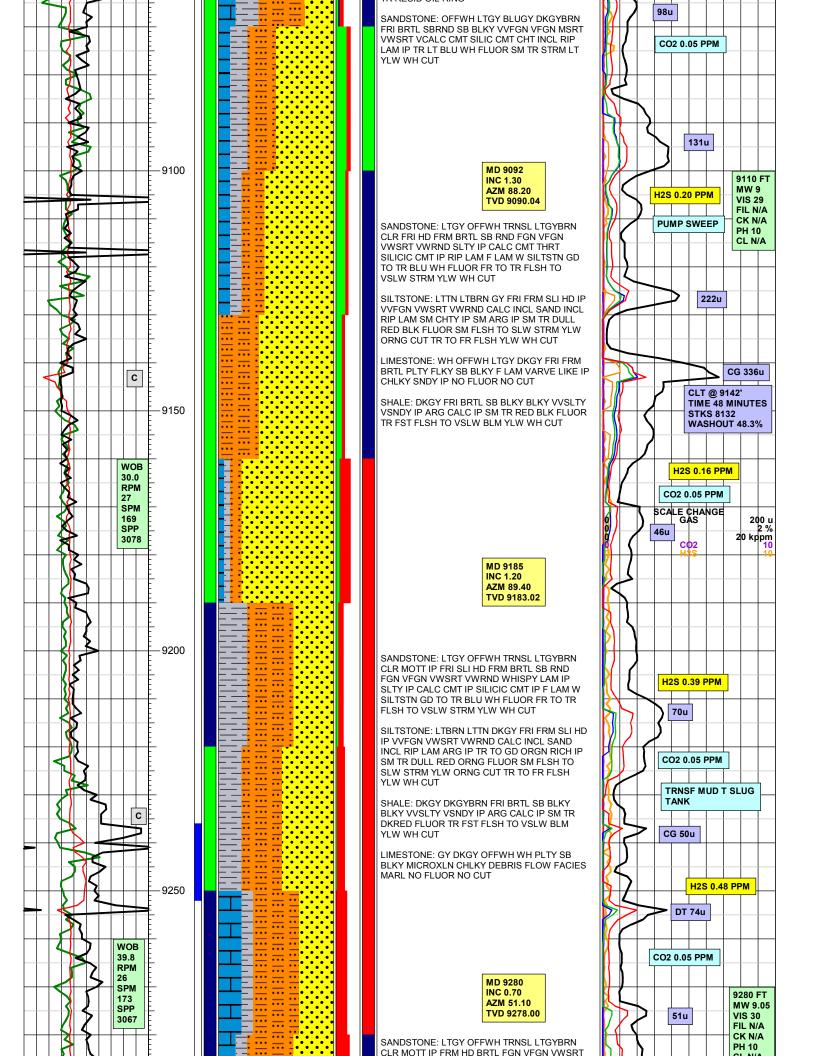


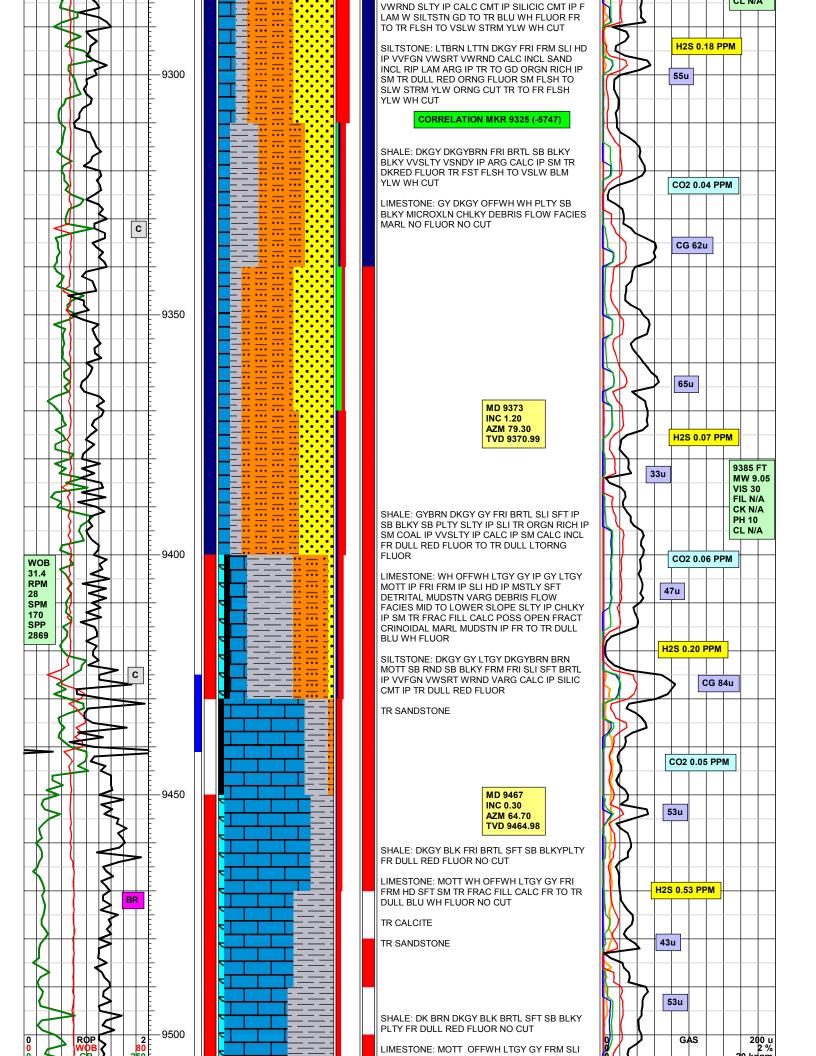


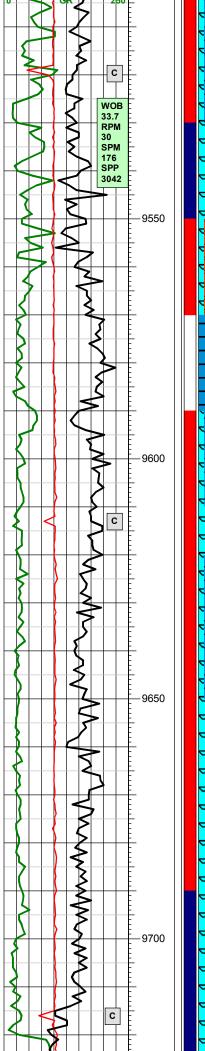


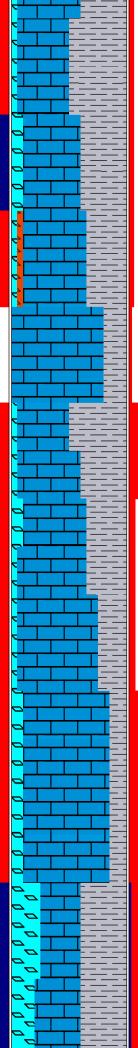


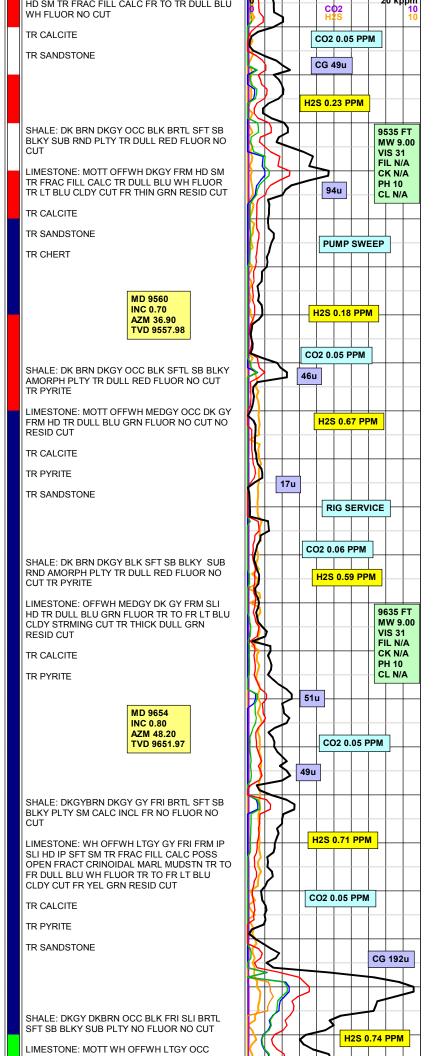


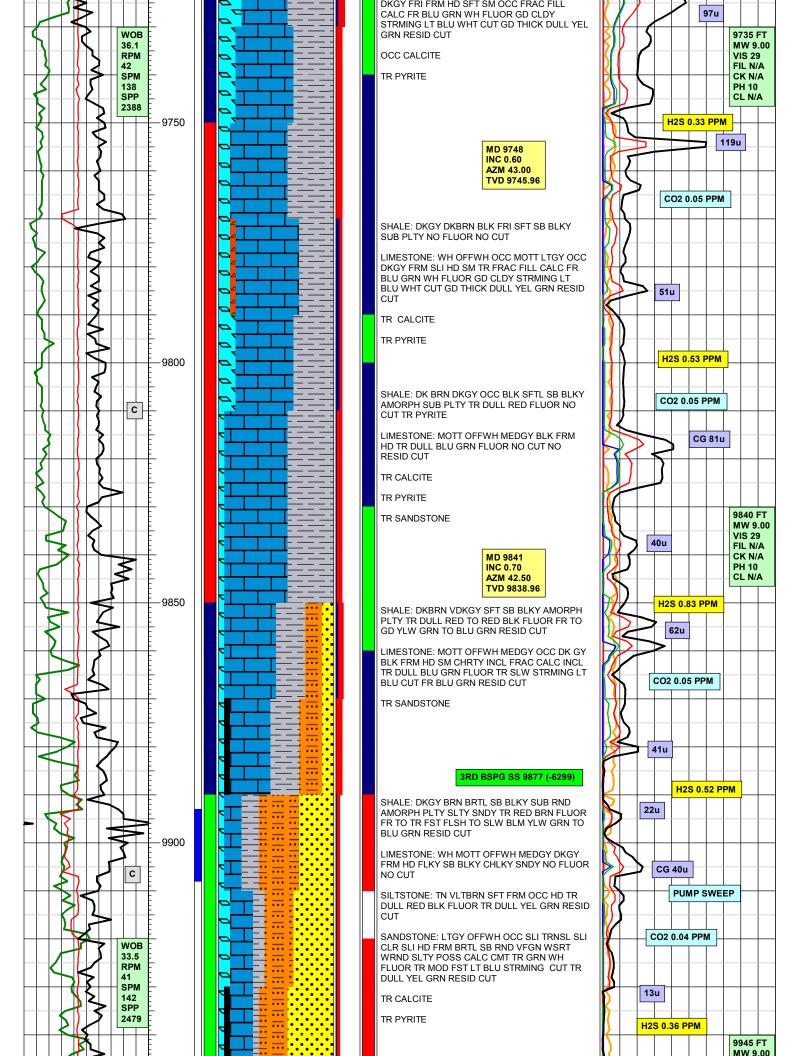


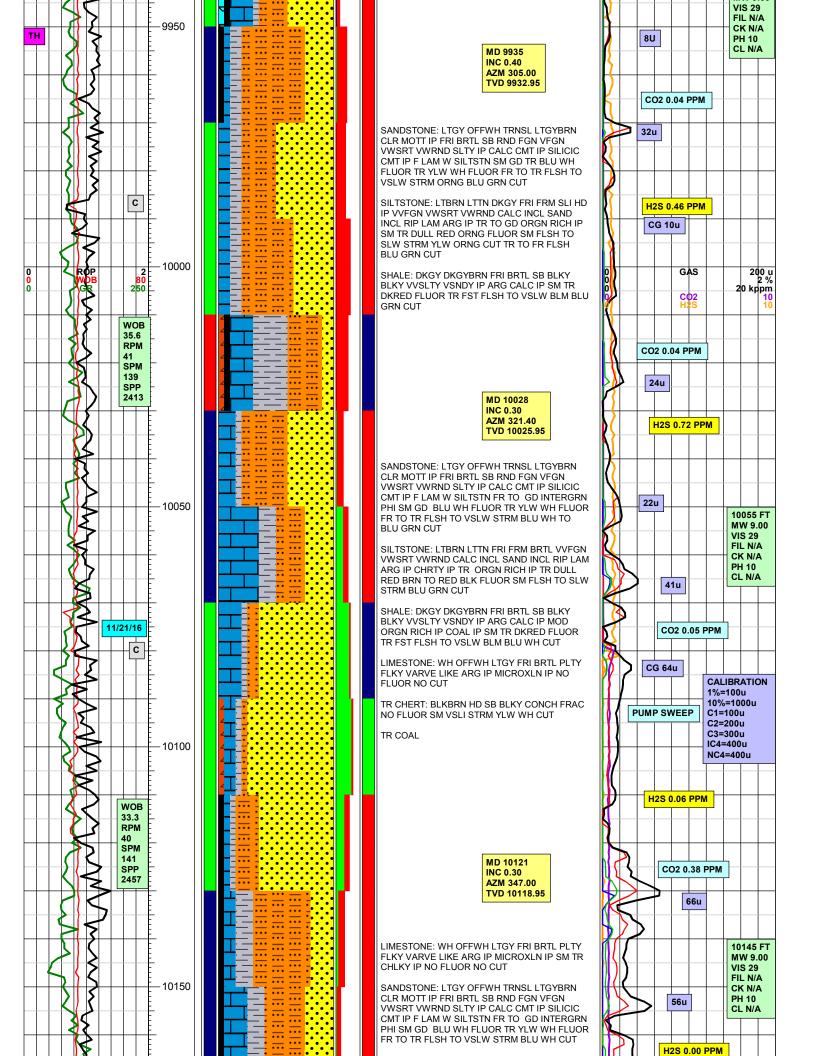


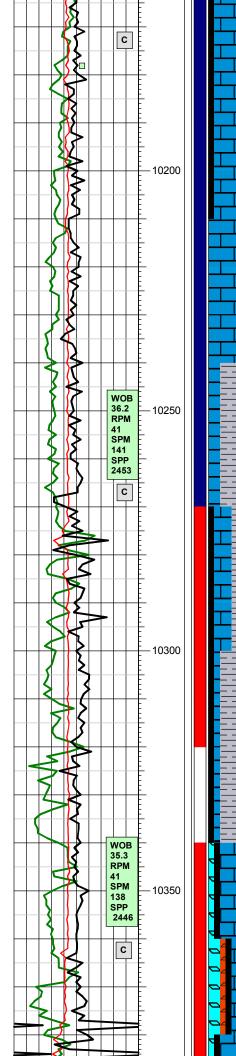


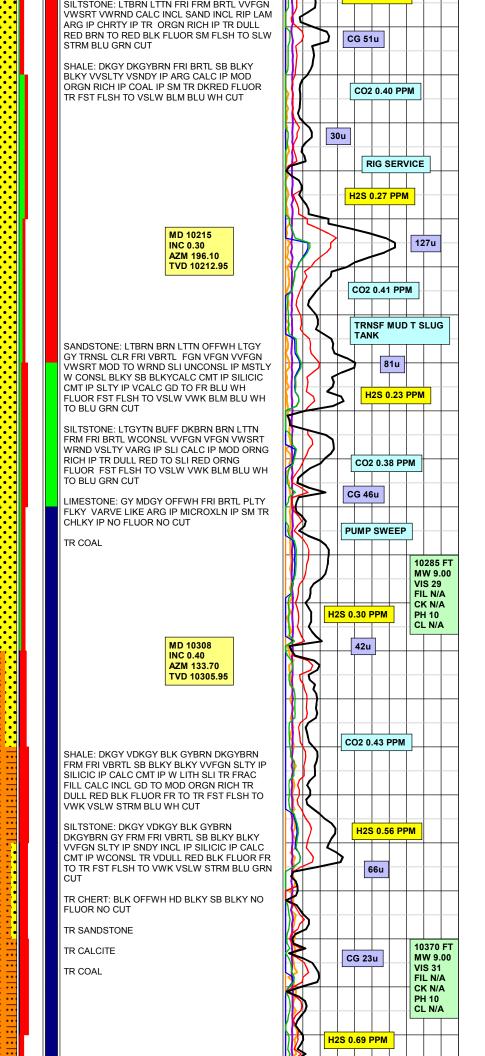


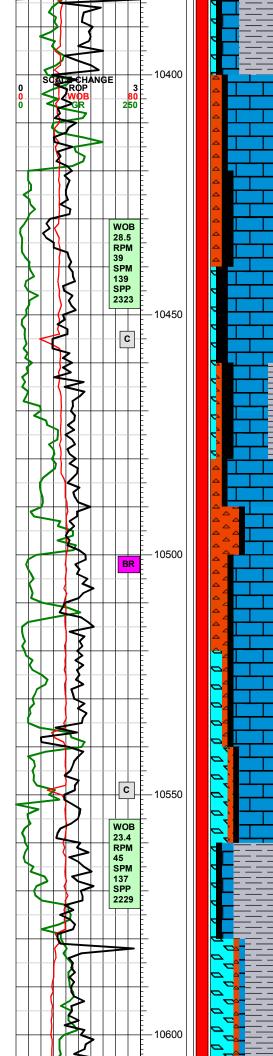


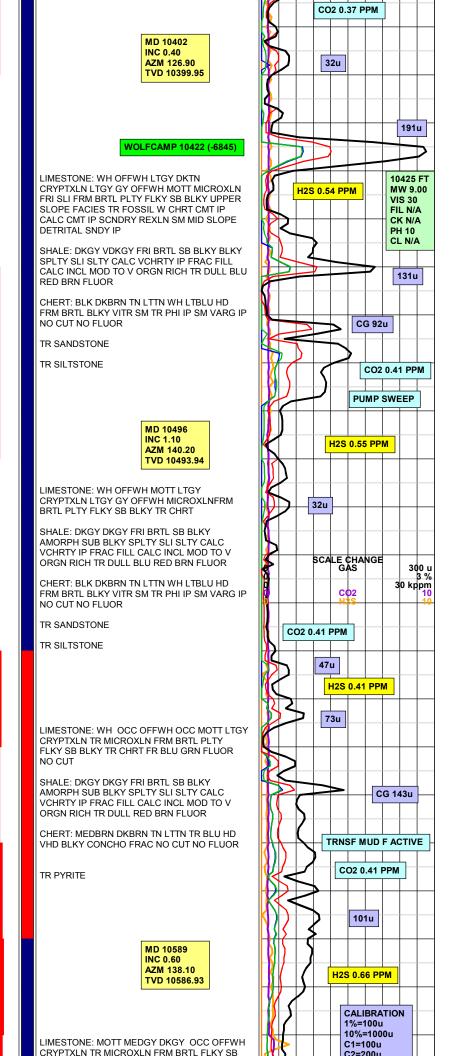


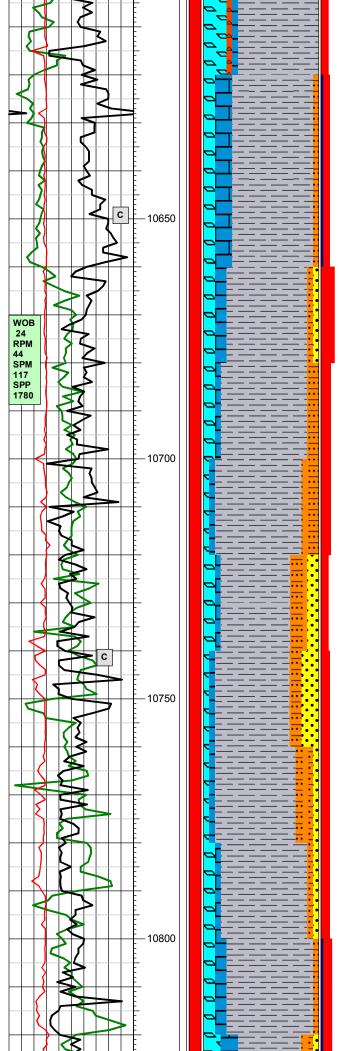


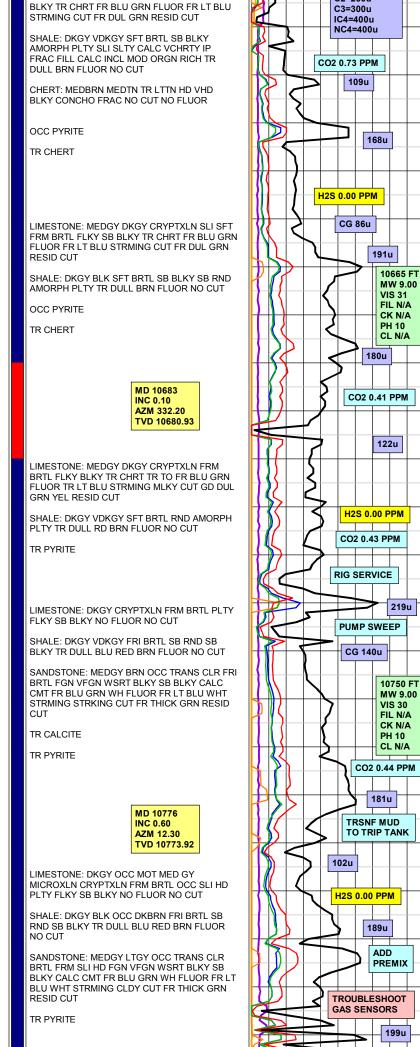


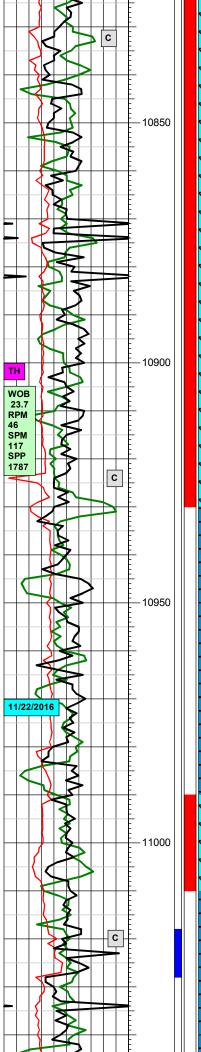


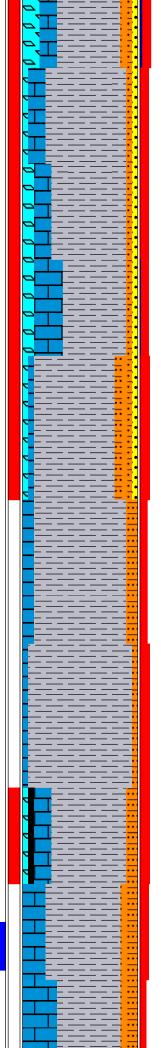












LIMESTONE: DKGY MOT MEDGY CRYPTXLN FRM BRTL FLKY BLKY NO FLUOR NO CUT

SHALE: DKGY BLK OCC DKBRN FRI BRTL SB RND SB BLKY TR DULL BLU RED BRN FLUOR NO CUT

SANDSTONE: LTGY OCC TRANS FRM OCC HD FGN VFGN WSRT SB RND SB BLKY CALC CMT FR BLU GRN WH FLUOR FR LT BLU STRKING MLKY CUT FR THICK GRN RESID CUT

TR PYRITE

ID 10870 NC 1.00 ZM 14.80 VD 10867.92
NC 1.00
ZM 14.80
VD 10867.92

SHALE: DKGY MDGY GY FRI FRM SLI SFT SB BLKY BLKY MOD TO GD ORGN RICH IP VCALC IP VVSLTY IP SLI SNDY IP FRAC FILL CALC IP TR TO FR DULL RED ORNG TO DK RED FLUOR FR FLSH TO MOD TO SLW STRM BLU GRN CUT FR TO GD RESID AMBR RING

SILTSTONE: DKGY DKGYBRN FRI FRM SLI SFT SB BLKY BLKY VVFGN VWSRT VVARG FR ORGN RICH IP CALC IP VVSLTY IP SLI SNDY IP FRAC FILL CALC IP TR TO FR DULL RED ORNG TO DK RED

CISCO 10931 (-7354)

FLUOR FR FLSH TO MOD TO SLW STRM BLU GRN CUT FR TO GD RESID AMBR RING

SANDSTONE: LTGY FRI BRTL VVFGN VWSRT VWRND ARG NO FLUOR NO CUT

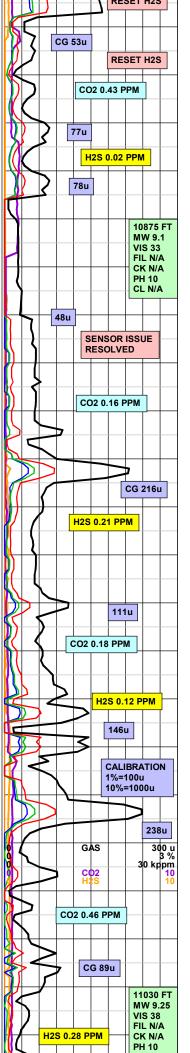
LIMESTONE: DKGY GY OFFWH LTGY FRM FRI SB BRTL BRTL SB BLKY MUDSTN RIP LAM W SH NO FLUOR NO CUT IP SLI FLSH TO BLM BLU GRN CUT IP

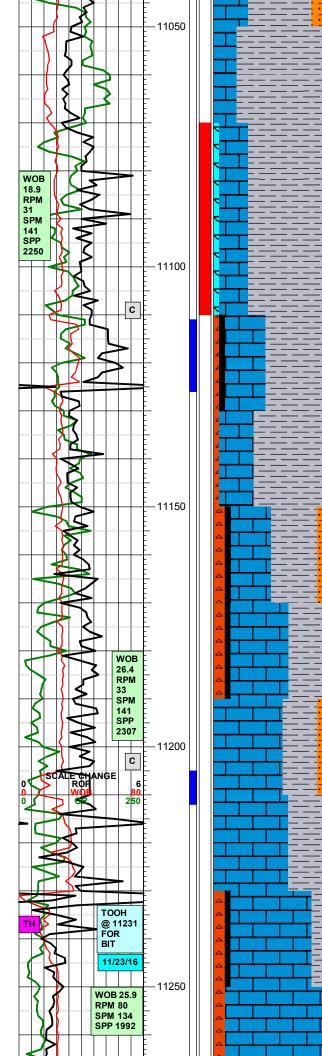


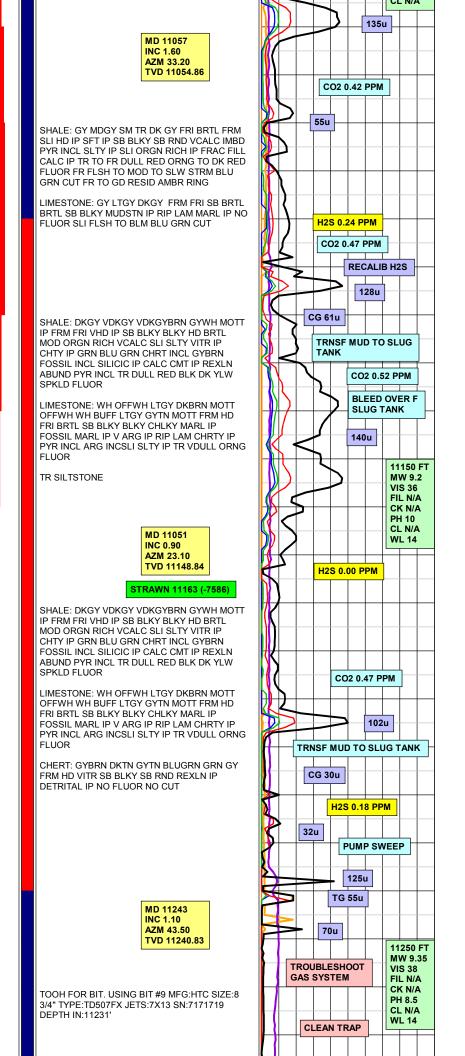
SHALE: MDGY GY DKGY LTGY FRI FRM SLI SFT SB BRTL SB BLKY VVCALC RIP LAM MARL IP VSLTY IP SM FR TO GD ORGN RICH MSTLY CALC SM TR FRAC FILL CALC TR TO FR DULL RED ORNG TO DK RED FLUOR FR FLSH TO MOD TO SLW STRM BLU GRN CUT FR TO GD RESID AMBR RING

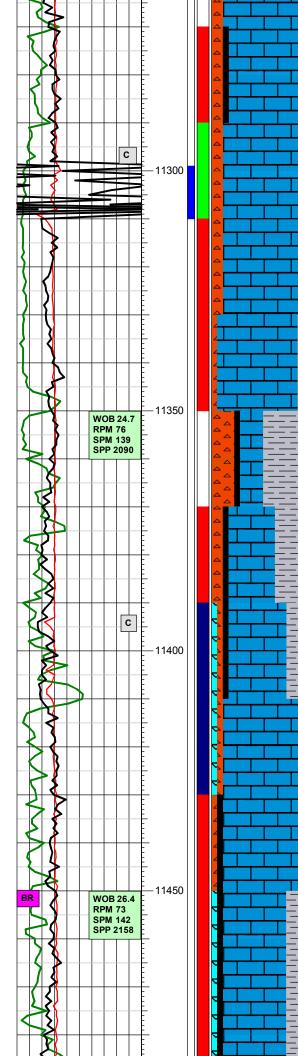
SILTSTONE: DKGY DKGYBRN FRI FRM SLI SFT SB BLKY BLKY VVFGN VWSRT VVARG FR ORGN RICH IP CALC IP VVSLTY IP SLI SNDY IP FRAC FILL CALC IP TR TO FR DULL RED ORNG TO DK RED FLUOR FR FLSH TO MOD TO SLW STRM BLU GRN CUT FR TO GD RESID AMBR RING

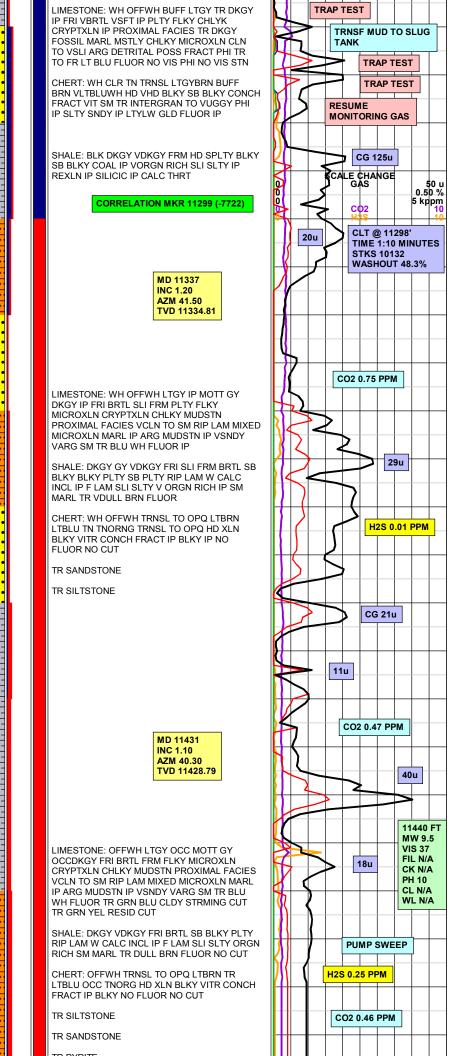
LIMESTONE: GY LTGY DKGY FRM FRI SB BRTL BRTL SB BLKY MUDSTN IP RIP LAM MARL IP NO FLUOR SLI FLSH TO BLM BLU GRN CUT

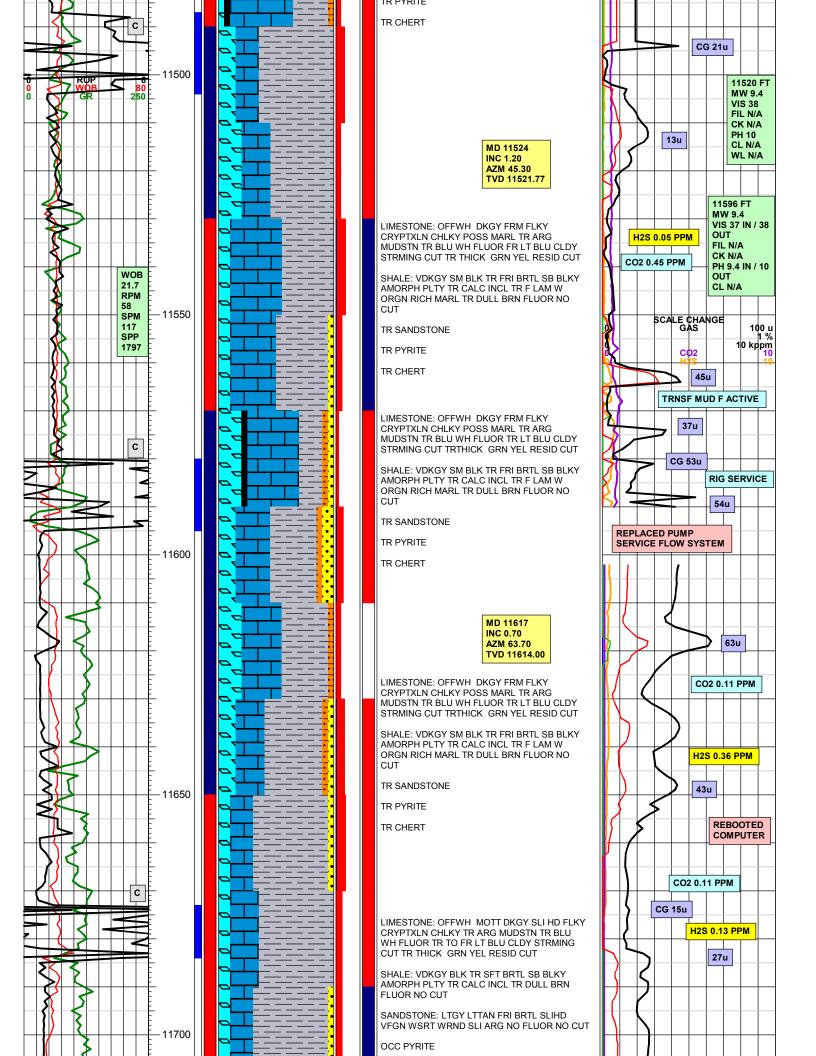


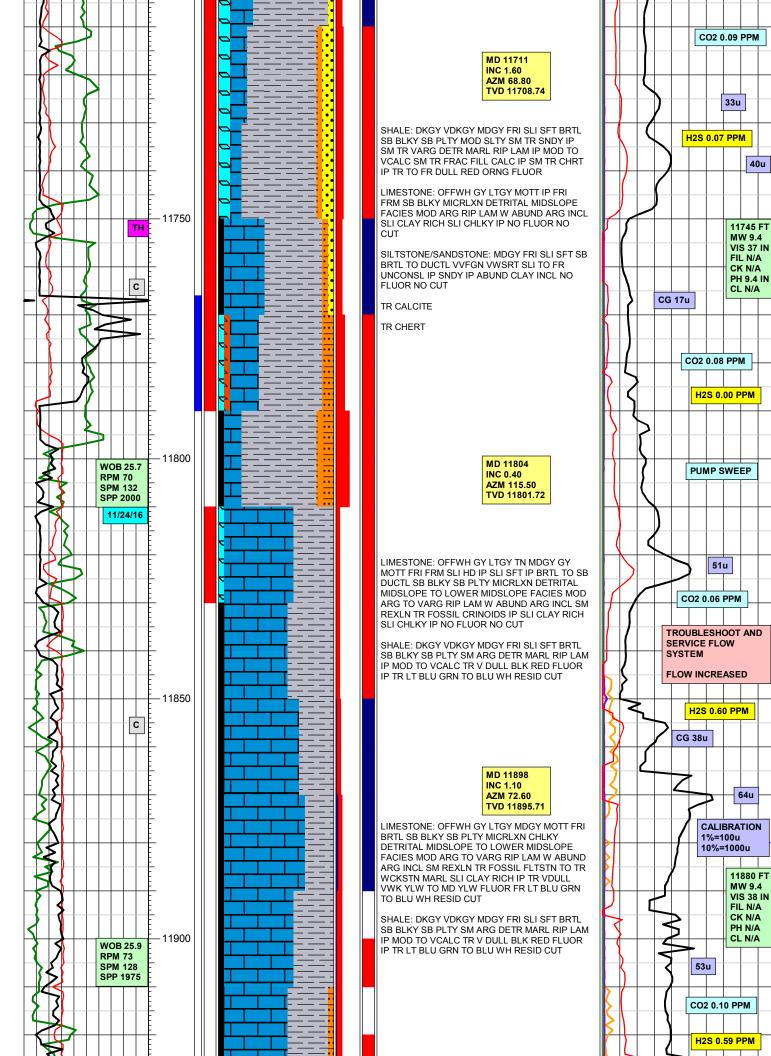


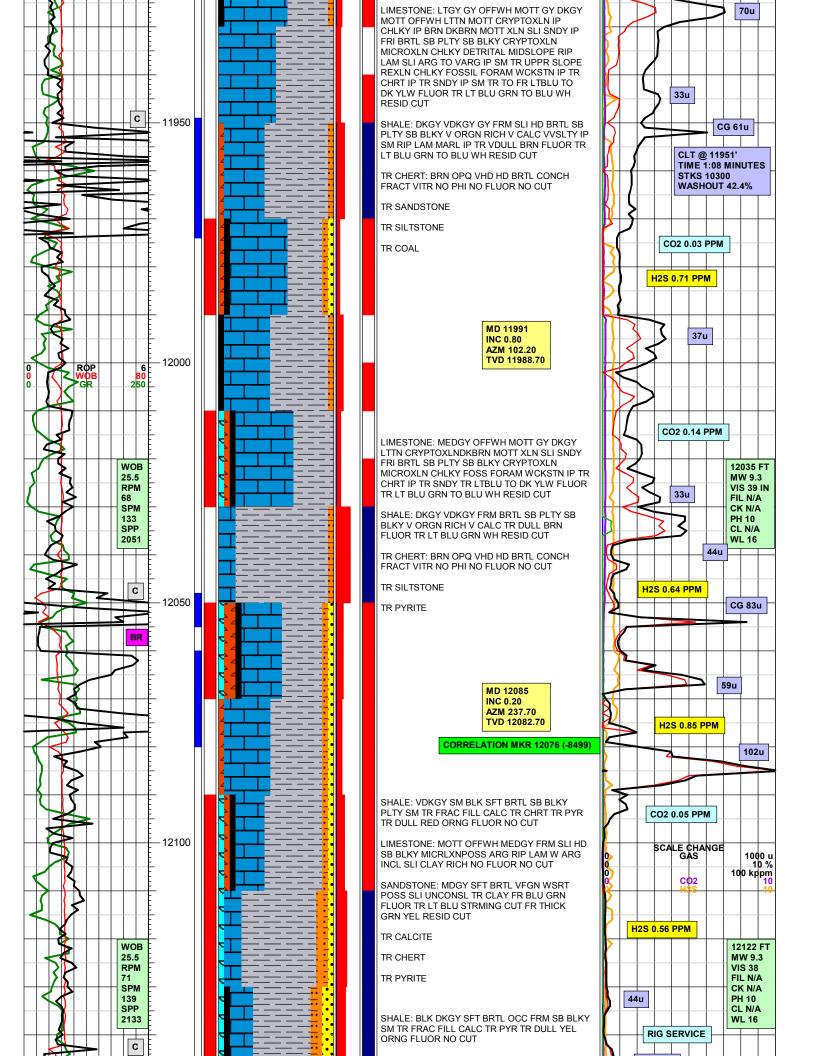


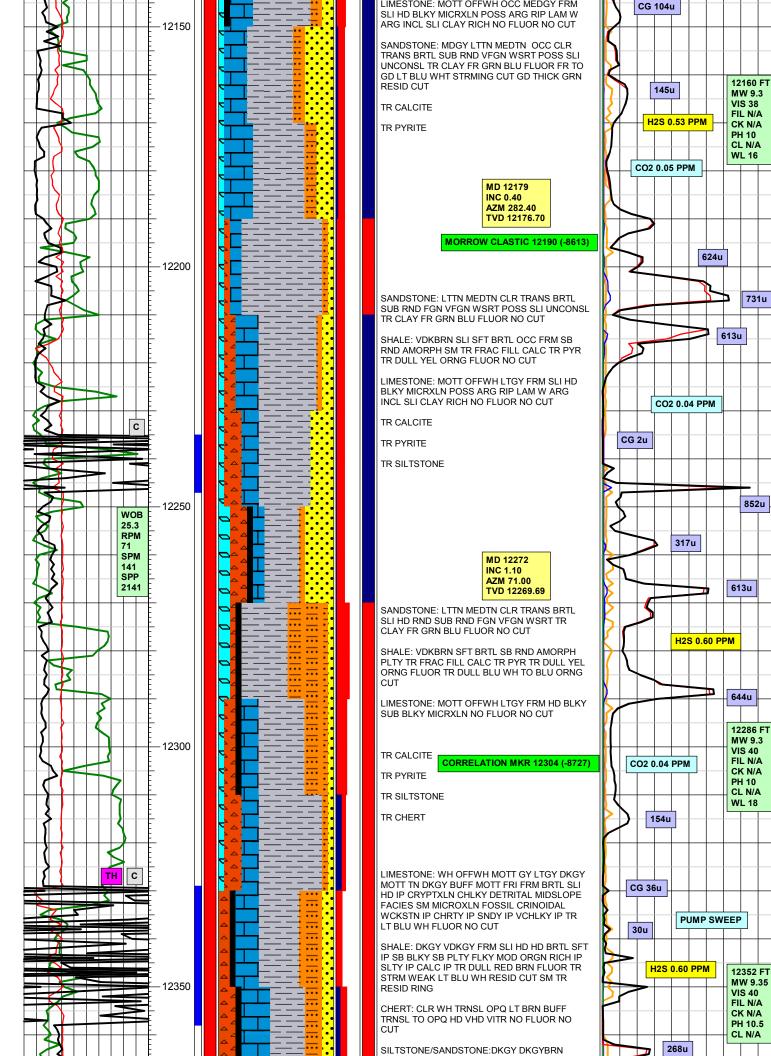


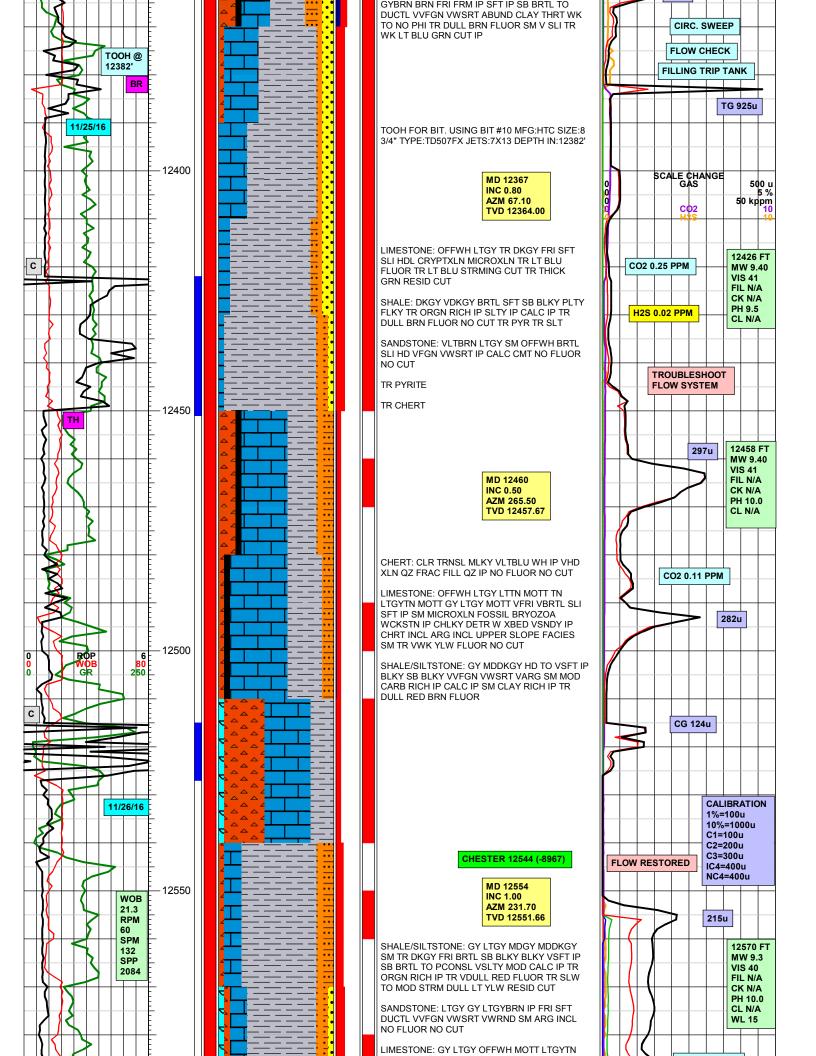


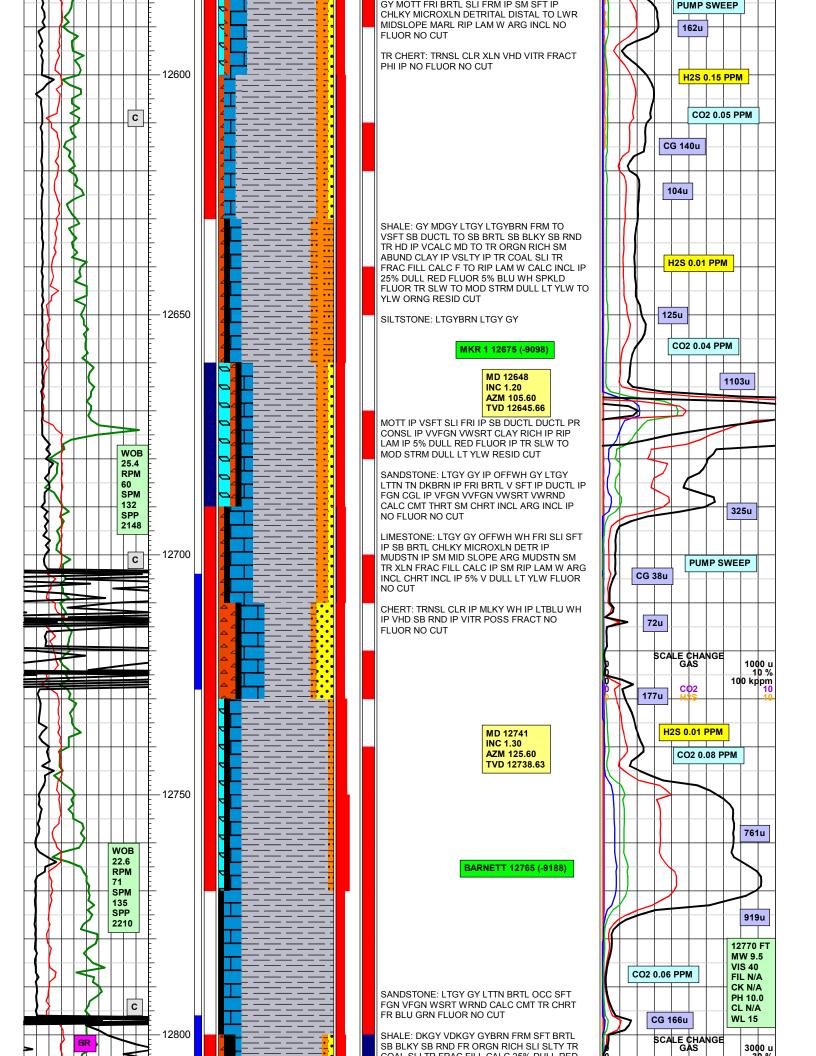


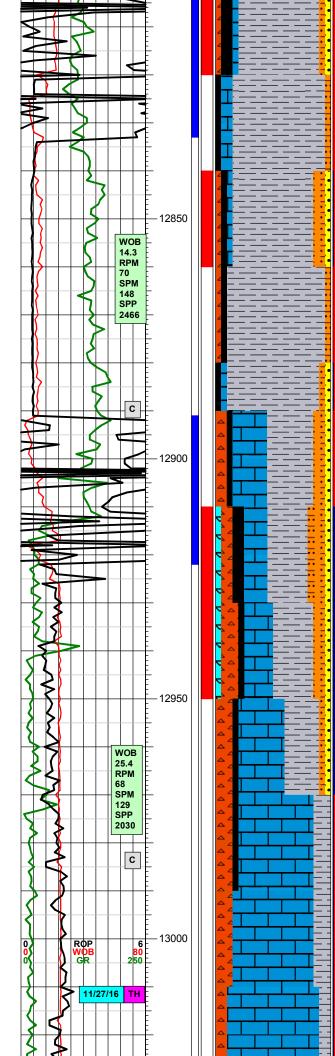


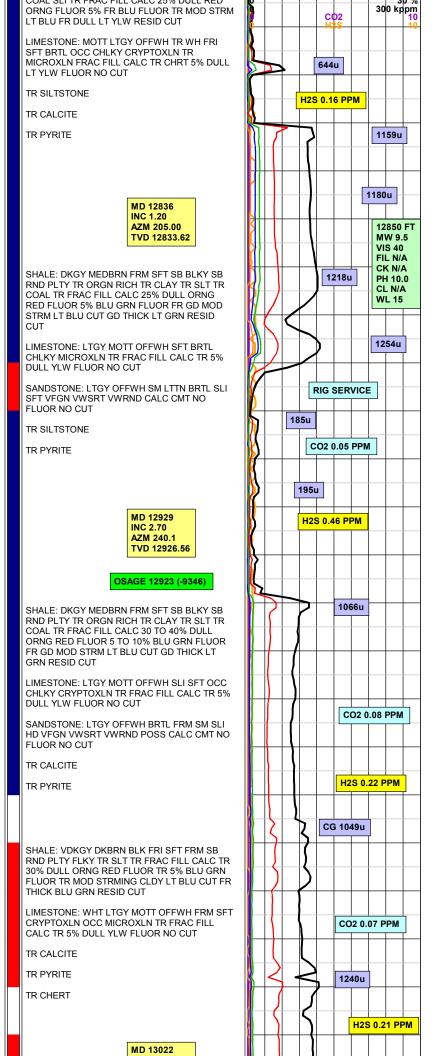


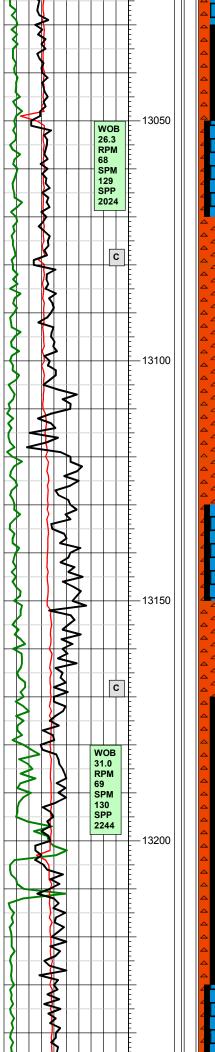


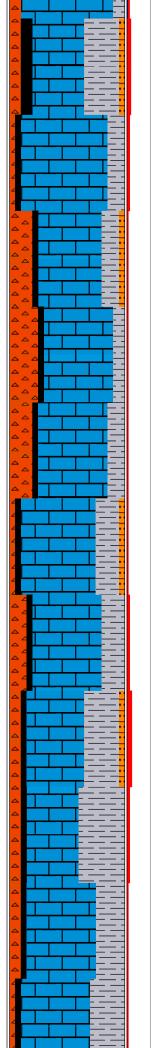


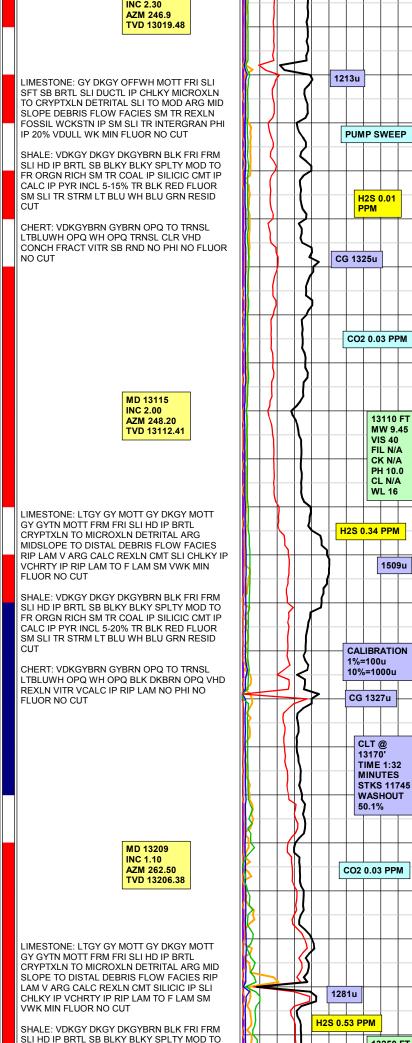












FR ORGN RICH SM TR COAL IP SILICIC CMT IP

13250 FT

