

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM41646

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well☐ Gas Well☐ Other8. Well Name and No.
BD Federal #22. Name of Operator
Wagner Oil Company9. API Well No.
30-015-254793a. Address
500 Commerce, Suite 600
Fort Worth, TX 761023b. Phone No. (include area code)
817-335-222210. Field and Pool or Exploratory Area
Brushy Draw - Delaware

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

990' FNL & 330' FWL, Unit D, SWSE Sec 25 - 26S - 29E.

11. Country or Parish, State
Eddy County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

MIRU rig and pick up tool, Pick up 4" 11.6# flush joint liner, RIH to 3150' liner & tag CIBP, space out as close to CIBP as possible
RU cmt truck & pump 820 gals of Class C cmt (50% excess), Tail w/2056 gals (capacity of 4.5" liner) of 2% KCL, Let set for 48 hrs
RU power swivel, RIH w/bit and scraper on workstring to 3140', POOH & LD work string
Test new csg to 5000# for 30 minutes. Record on chart
RIH GR/CCL and correlate w/log
RIH w/CCL and perf gun, perf Bell Canyon Ramsey 3102' - 3130', POOH and RDMO wireline
RIH w/tbg & prk, set prk @ 3075', being swab, test well, evaluate for possible frac
IF FRAC
POOH w/tbg & prk
See attached procedure
TIH w/new tbg design, set TAC @ 3000'
Swab well
TIH w/pump and rod string
Put well on production

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 23 2016

RECEIVED

*Returned with explanations attached.**File C102*

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Sabrina Bonner

Title Regulatory Analyst

Signature

Sabrina Bonner

Date 06/16/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Paul R. Swartz

Title

TPET

Date

09/13/2016

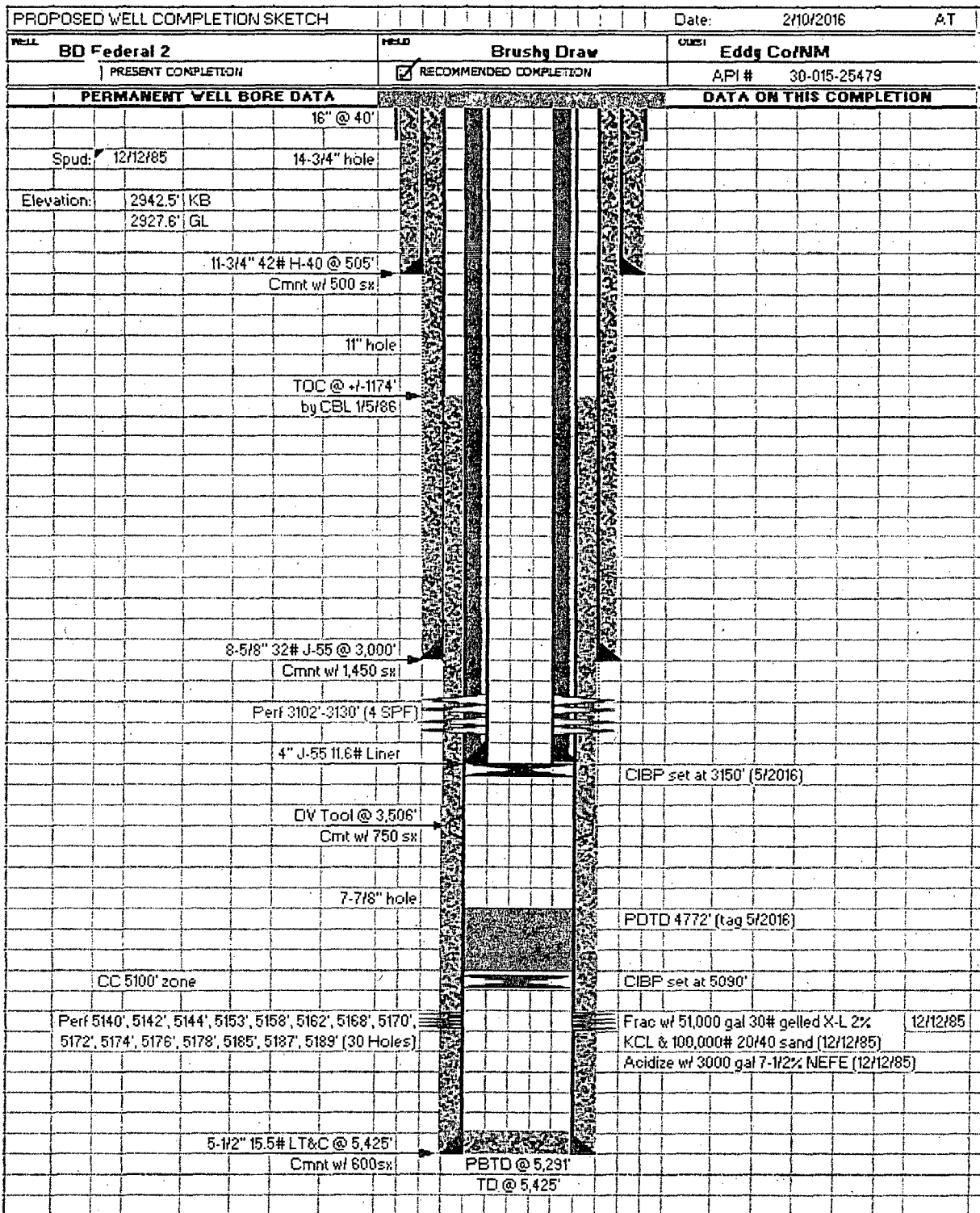
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

CFO

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 any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



WELL COMPLETION SKETCH

Date: 5/30/2016

SHT

WELL

BD Federal 2

FIELD

Brushy Draw

COB1

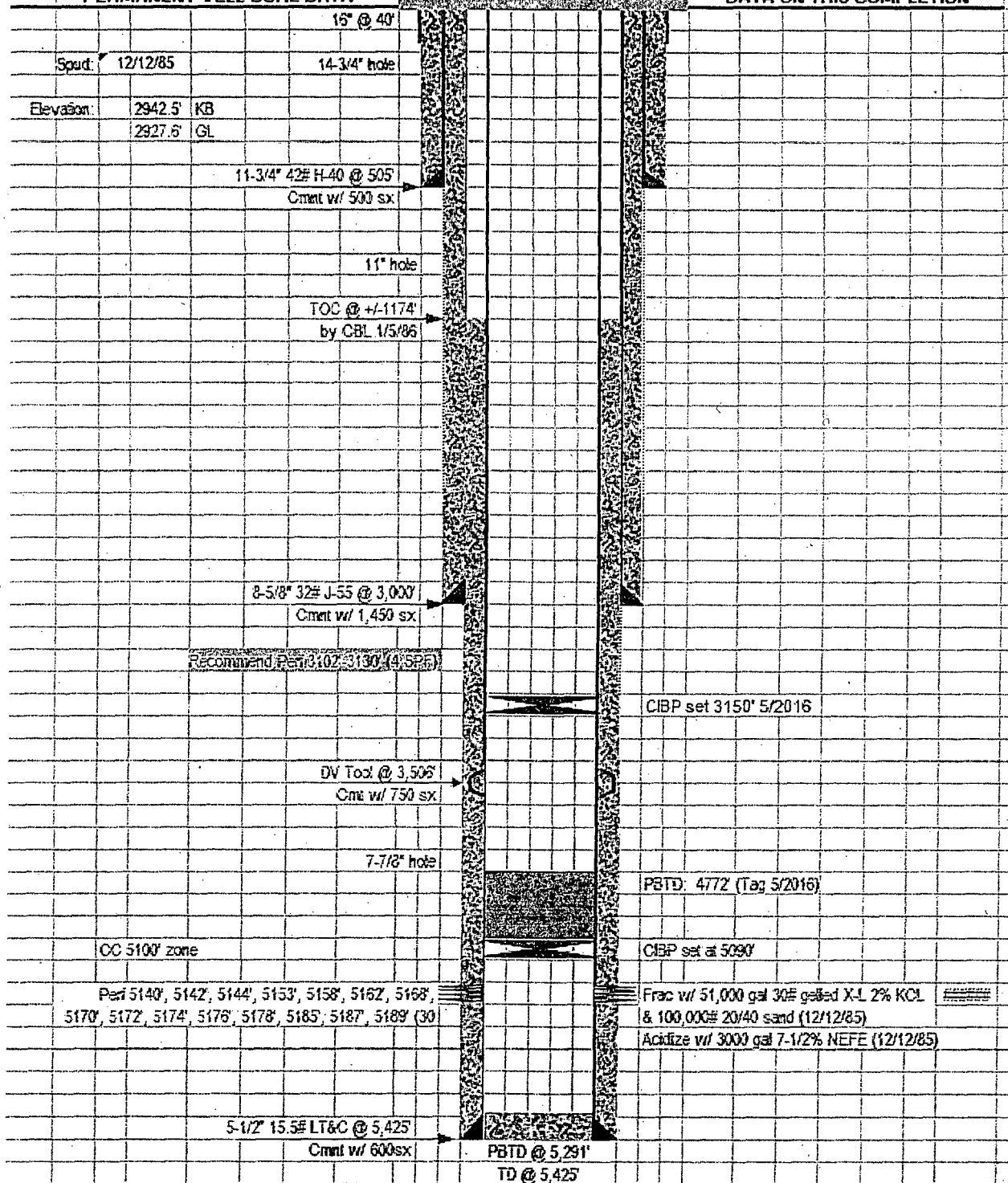
Eddy Co/NM

☒ PRESENT COMPLETION☐ RECOMMENDED COMPLETION

API # 30-015-25479

PERMANENT WELL BORE DATA

DATA ON THIS COMPLETION



Pumping Schedule

100% Resin Coated
Stage: 1

Clean Fluid Totals	
WF125	8,000 gal
YF125FlexD	9,483 gal

Proppant Totals	
SB Prime 20/40	30,000.0 lbm

Bottom Hole Pumping Schedule												
Stage	Fluid Type	Clean Fluid Vol	Cum Clean Fluid	Prop Type	B.N. Prop Conc	Prop Per Stage	Cum Prop Amt	Stage Slurry Vol	Cum Slurry Vol	Pump Time	Clean Rate	Slurry Rate
		gal	gal		PPA	lbm	lbm	bbl	bbl	min	bbbl/min	bbbl/min
Pad	WF125	8,000	8,000		0.0	0.0	0.0	130.5	130.5	19.0	10.0	10.0
1.0 PPA	YF125FlexD	2,000	10,000	SB Prime 20/40	1.0	2,000.0	2,000.0	49.9	240.3	1.7	26.7	30.0
2.0 PPA	YF125FlexD	1,900	11,900	SB Prime 20/40	2.0	3,800.0	5,800.0	49.4	289.7	1.6	27.5	30.0
3.0 PPA	YF125FlexD	1,400	13,300	SB Prime 20/40	3.0	4,200.0	10,000.0	38.0	327.7	1.5	26.3	30.0
4.0 PPA	YF125FlexD	1,750	15,050	SB Prime 20/40	4.0	7,000.0	17,000.0	49.4	377.1	1.6	25.3	30.0
5.0 PPA	YF125FlexD	1,600	16,650	SB Prime 20/40	5.0	8,000.0	25,000.0	46.5	424.1	1.6	24.3	30.0
6.0 PPA	YF125FlexD	833	17,483	SB Prime 20/40	6.0	5,000.0	30,000.0	25.4	449.4	0.8	23.5	30.0
Flush	WF125	1,134	18,617		0.0	0.0	30,000.0	27.0	476.4	1.4	20.9	20.0
Totals:		18,617					30,000.0	476.4		29.0		

Pad 8,000 gal
Frac 9,483 gal
Pad% 45.8 %

Material Summary

Fluid Summary			
Fluid Description		Additives	
WF125	B525	Surfactant	1.00 Gal/Gal
	B534	Clay Stabilizer	2.00 Gal/Gal
	J218	Breaker	1.000 lbm/Gal
	J580	Gelling Agent	25.000 lbm/Gal
	M300	Blocker	0.25 Gal/Gal
YF125FlexD	B525	Surfactant	1.00 Gal/Gal
	B534	Clay Stabilizer	2.00 Gal/Gal
	J218	Breaker	1.000 lbm/Gal
	J475	Breaker Encapsulated	1.000 lbm/Gal
	J580	Gelling Agent	25.000 lbm/Gal
	J504	Crosslinker	2.00 Gal/Gal
	M300	Blocker	0.25 Gal/Gal
	U028	Activator	2.00 Gal/Gal

Totals By Stage					
Stage	Fluids	Clean Fluid Volume	Proppants	Proppant Mass	Pump Time
1	WF125	9,134 gal	SB Prime 20/40	30,000.0 lbm	29.0 min
	YF125FlexD	9,483 gal			

Job Totals				
Fluids	Clean Fluid Volume	Proppants	Proppant Mass	Pump Time
WF125	9,134 gal	SB Prime 20/40	30,000.0 lbm	29.0 min
YF125FlexD	9,483 gal			

Load Out Summary

Load Out			
Fluid/Material Type	Code	Load Quantity	
Surfactant	B525	18.6 gal	
Clay Stabilizer	B534	37.2 gal	
Breaker	J218	18.6 lbm	
Breaker Encapsulated	J475	9.5 lbm	
Gelling Agent	J580	455.4 lbm	
Crosslinker	J504	19.0 gal	
Blocker	M300	4.7 gal	
SB Prime 20/40	5415-2040	30,000.0 lbm	
Activator	U028	18.0 gal	

Operator: Wagner Oil Company
Surface Lease: NM41646

Case No: NM41646

Subsurface Concerns for Casing Designs: HiCvKst

Well Status: Oil

Spud date: 12/12/1985

Plug'd Date:

Reentry Date:

BHL: NM41646
Lease Agreement

Well: BD FEDERAL-2

API: 3001525479

@ Srfce: T26S-R29E,25.990n330w

@ M TD: T26S-R29E,25.990n330w

Estate: F/VF

CWDW, R of W: 0

Admn Order, date: 0

Frmtn, Depths, psig: 0

KB: 2943

GL: 2928

Corr: 15

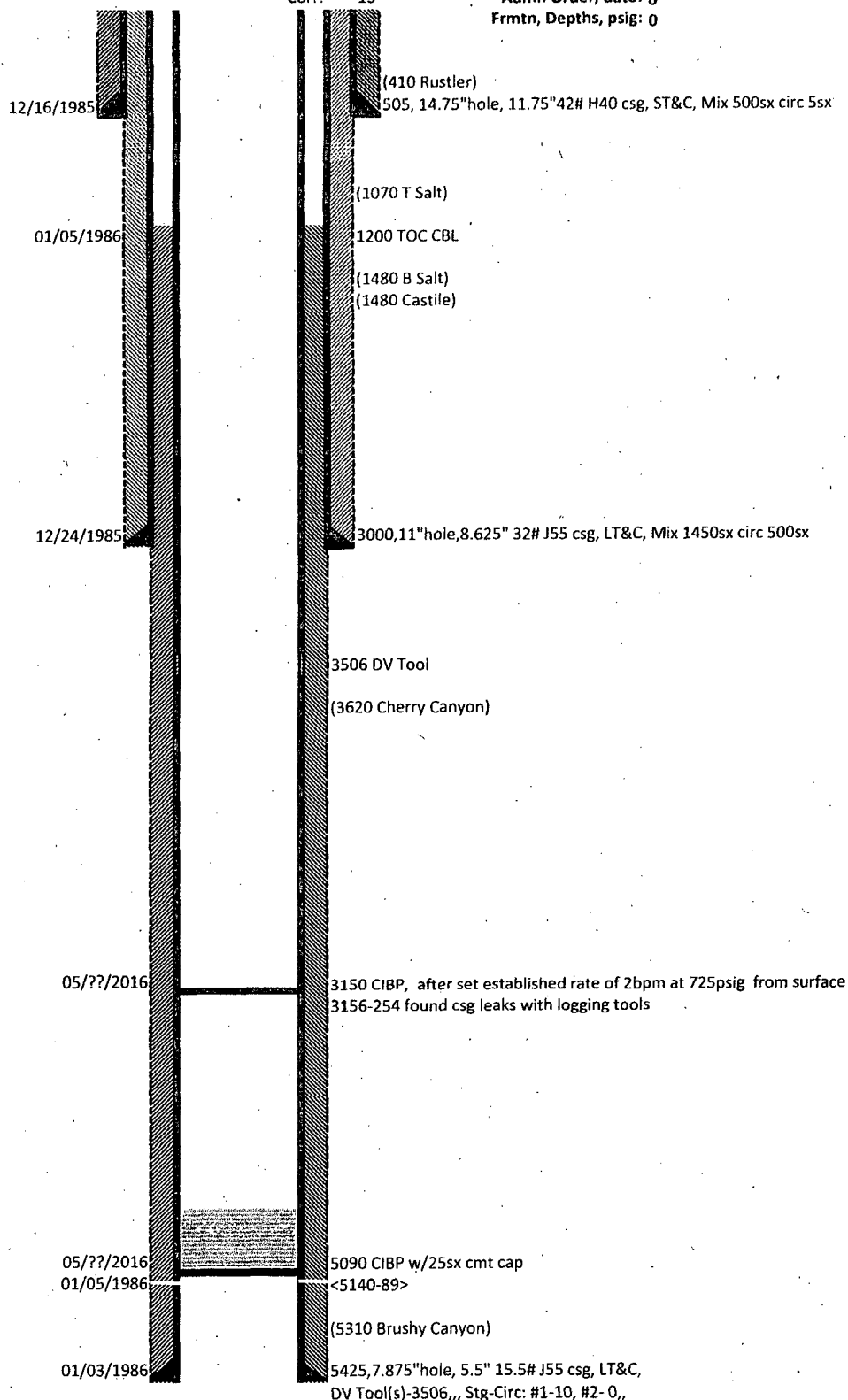


Diagram last updated: 09/09/2016

High Cave Karst: two casing strings, both to circulate cement to surface.

11 3/4 surface csg in a 14 3/4 inch hole.					Design Factors		SURFACE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	42.00	H 40	ST&C	14.47	4.61	1.27	505	21,210	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,166			Tail Cmt	does	circ to sfc.	Totals:	505	21,210	
Comparison of Proposed to Minimum Required Cement Volumes									
Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
14 3/4	0.4336	500	600	230	161	8.60	898	2M	1.00

8 5/8 casing inside the 11 3/4 casing.				Design Factors			INTERMEDIATE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	32.00	J 55	LT&C	4.34	1.62	1.42	3,000	96,000	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,442						Totals:	3,000	96,000	
The cement volume(s) proposed may achieve a top				0	feet from surface.				
Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
11	0.2542	4525	6798	783	768	10.00	1568	2M	0.69

5 1/2 casing inside the 8 5/8				Design Factors			INTERMEDIATE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	15.50	J 55	LT&C	2.58	1.46	1.74	5,425	84,088	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,000						Totals:	5,425	84,088	
The cement volume(s) proposed may achieve a top				0	feet from surface.				
Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess DVT Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
7 7/8	0.1733	1350	2011	958	O K	9.80	780	2M	0.91
Lack a <u>daily dated</u> subsequent report for previous failed workover.									

4 casing inside the 5 1/2 Proposed				Design Factors			PRODUCTION		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	9.50	J 55	U F Joint	4.14	3.47	3.69	3,150	29,925	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500						Totals:	3,150	29,925	
The cement volume(s) proposed may achieve a top				0	feet from surface.				
Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
4 3/4	0.0358			173		9.00			0.38
Proposed casing liner discription inadquite and proposed liner minimum centered clearance is less than the BLM required 0.42"									