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5A. Indicate Type of Lease

1982 ☒ PERM ☐

6. State Oil & Gas Lease No.

LG 1195

OFFICE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG-BACK

1a. Type of Work b. Type of Well OIL WELL ☐ GAS WELL ☒ OTHER ☐ 2. Name of Operator THE DESANA CORPORATION 3. Address of Operator 600 Building of the Southwest, Midland, Texas 79701 4. Location of well UNIT LETTER <u>H</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>17</u> TWP. <u>18S</u> RGE. <u>24E</u> 15. Proposed Depth 8700 16. Elevation (whether Dr. H. etc.) 3799.1 GL 21A. Kind & Status Plug Bond \$50,000 Statewide 21B. Drilling Contractor Moranco 22. Approx. Date Work will start November 1, 1982		7. Unit Agreement Name 8. Farm or Lease Name McCasland State 9. Well No. 1 10. Field and Pool, or Wildcat Und. N. Antelope Sink Morrow 17. County Eddy 19. Testation Morrow 20. Rotary or C.T. Rotary
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23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/4	13-3/8	48	325	400	Surface
11	8-5/8	24	1000	450	Surface
7-7/8	4-1/2	10.50-11.60	8700	1000	2600'

Surface String: This string will be cemented w/400 sx Class "C" cement containing 2% CaCl. The volume is designed to circulate cement to surface. Cement volume is over 100% excess.

Intermediate String: This string will be cemented w/250 sx Halliburton Light cement containing 5% Gilsonite & 1/4# Flocele/sc, tailing in w/200 sx Class "C" neat cement. The volume of cement incorporates over 150% excess and is designed to circulate cement to surface.

Production String: This string will be cemented w/700 sx of Halliburton Light and 300 sx of 50-50 Incol Poz cement containing 12% salt & 1/2 % CFR-2. This volume is designed to bring cement back to 2600' and incorporates 25% excess.

See attached mud program

Gas is not dedicated. BOP program is attached.

PERMIT VALID FOR 180 DAYS

PERMIT EXPIRES 1-22-83

PERMIT DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PROPOSED DRILLING UNDERWAY PROGRAM; GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Tom B. Smith Title Production Superintendent Date 10/6/82

(This space for State Use)

APPROVED BY Mike Williams TITLE OIL AND GAS INSPECTORDATE OCT 20 1982

CONDITIONS OF APPROVAL, IF ANY:

Not a C.C. in sufficient

to place something

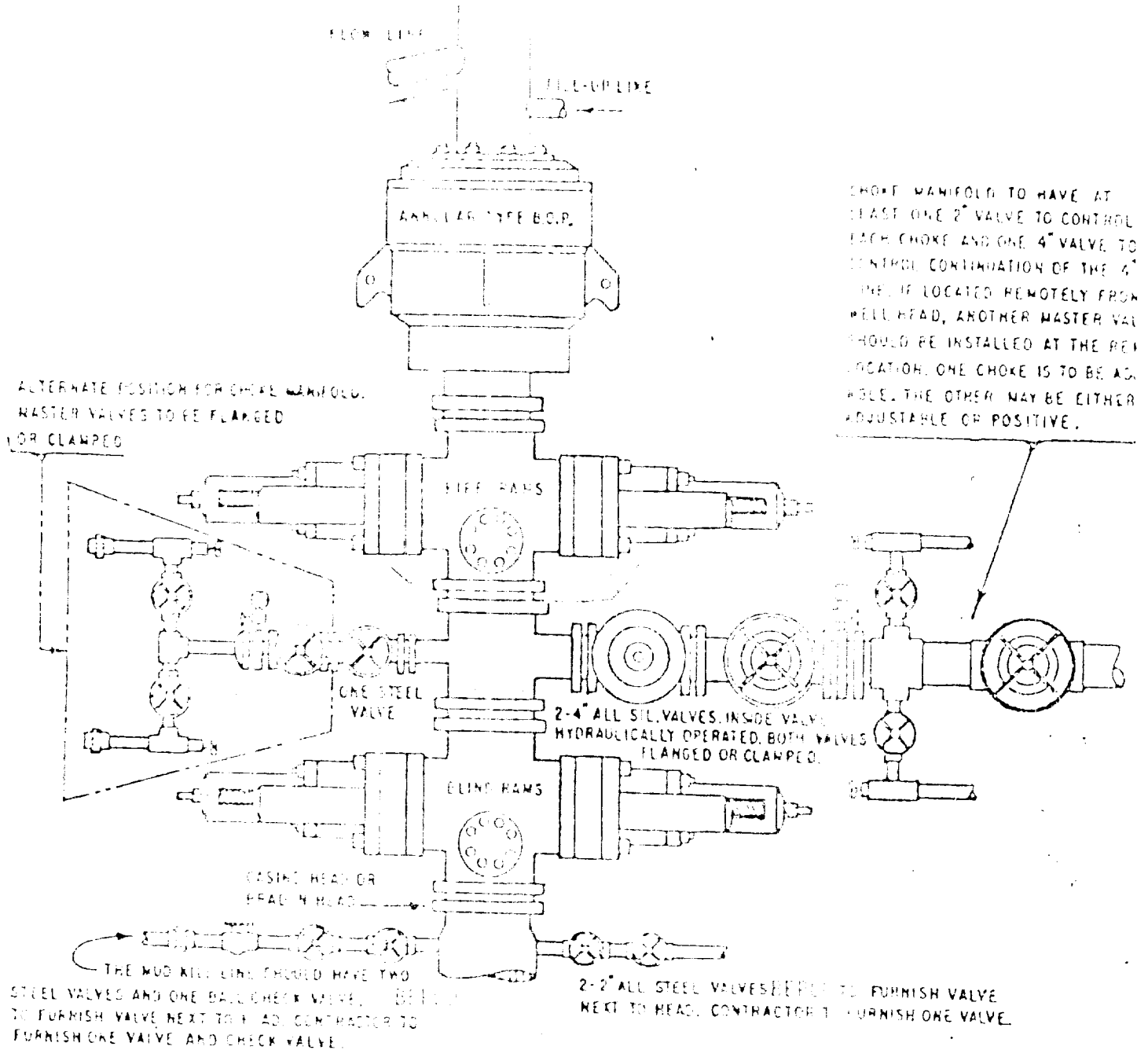
de casing

Post TD-1
10-22-82
HPE + BK

Com. No.	JOHN W. WEST	876
	PATRICK A. ROMERO	8868
	Ronald J. Eidson	3239

RECOMMENDED DRILLING FLUIDS PROGRAM

DEPTH FEET	WEIGHT P.P.G.	VISCOSITY SEC/1000cc	FILTRATE API	
0-350'	8.8-9.0	15-16	No Control	Spud with a Fresh Water Gel and Lime type fluid using Paper for any seepage encountered.
350-1100'	8.6-8.8	18-20	No Control	Drill out of the surface casing circulating the reserve pit with fresh water pretreated with Paper and Multi Seal type loss circulation material. Use Lime for a 9 to 10 pH.
1100-4700'	8.9-9.1	18-20	No Control	Drill out of the intermediate casing circulating the reserve pit with controlled cut brine water using Lime for a 9 to 10 pH. Make additions of Paper and Multi Seal to help prevent loss of circulation.
4700-7000'	8.9-9.1	18-20	No Control	At 4700' add and maintain 3% Potassium Chloride to help stabilize the Abo and Wolfcamp formation.
7000-8700'	9.0-9.2	16-40	8-10	At 7000' mud up through the steel pipe with Salt Water Gel and Starch. Mud weight, viscosity, and water loss may need altering if hole conditions dictate or for logging and DST's.
8700'	9.0-9.2	40-45	5-8	At T. D. and before running logs, DST's or production casing, raise the viscosity to 40 sec/1000 cc's and reduce the water loss to less than 8 cc's.



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

1. CONDITIONS MAY BE MET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKER SPOOL BELOW AND EITHER
 - (1) TWO RAM TYPE BLOWOUT PREVENTERS BELOW THE SPOOL, THE LOWER UNIT CONTAINING BLIND RAMS AND THE UPPER UNIT CONTAINING PIPE RAMS, OR
 - (2) A DUAL BLOWOUT PREVENTER BELOW THE SPOOL WITH BLIND RAMS ON BOTTOM AND PIPE RAMS ON TOP.
2. OPENING ON CHOKER SPOOL TO BE FLANGED, STUDDED OR CLAMPED.
3. ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
4. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE B.O.P.'S.
5. ALL CONNECTIONS TO ANY B.O.P. PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'S.
6. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
7. KILLY COCK TO BE INSTALLED ON KELLY.
8. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.
9. DUAL OPERATING CONTROLS ONE LOCATED BY DRILLING POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.

THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS