



## RIG #219

### DRAWWORKS

National Oilwell Varco ADS-10SD (1500HP)  
(2) AC Cage Induction Motors (1150HP each)  
1 3/8" drill line, Amphion Control System

### POWER

(3) Caterpillar 3512 engines w/ 1365 KW generators

### AC DRIVE SYSTEM

NOV Model 1402  
AC Drive House with Top Drive Control  
integrated into AC house

### MAST

National Oilwell Varco 142' w/ 750,000# capacity  
on 10 lines  
Block and Top Drive remain in mast during mobilization

### SUBSTRUCTURE

National Oilwell Varco 25' Sling Shot  
KB 26' 6" Rotary beam clearance 21' 8"

### BLOCK HOOK

National Oilwell Varco (500 Ton) block

### DRILLERS CABIN

S-DAQ Drilling Information System  
Joy Stick Control w/ Emergency shut down  
Crown and Floor Saver

### PUMPS

(2) National FD-1600 (1600HP each) triplex pumps  
Each independently powered by (2) Baylor AC Cage  
Induction Motors

### MUD PITS

(2) tank system - 1314 bbl capacity w/ 121 bbl slug pit  
with steel tank covers

### SOLIDS EQUIPMENT

Brandt King Cobra Dual Shaker  
Brandt 3-cone desander  
Brandt 20-cone desilter  
Vacuum degasser  
Mud gas separator  
(7) mud agitators

### BOP'S

11" X 5,000 psi Hydril GK annular  
11" X 10,000 psi Shaffer LWS double

### CONTROL

Koomey 6-Station 242 gallon accumulator

### CHOKE MANIFOLD

5,000 psi choke manifold

### TOP DRIVE

Varco TDS-11-SA (500 Ton)

### ROTARY TABLE

National Oilwell Varco ZP-375 (37 1/2")  
Independent rotary driven by (1) variable AC  
motor (400 HP)

### DRILL PIPE

5" drill pipe

### DRILL COLLARS

8" and 6 1/2" drill collars  
\*quantity subject to availability

### AUXILIARY EQUIPMENT

Pason EDR (base system)  
Fuel Tank - 16,800 gallon capacity  
Water Tank - (2) 500 barrel capacity each  
Rig Manager and Crew Quarters  
NOV ST-80-C Iron Roughneck  
NOV Electronic Drilling System  
Pipe Wrangler 3500 hydraulic catwalk  
Grayco survey unit  
Man rider  
Power slips



**PATTERSON-UTI**  
DRILLING COMPANY LLC